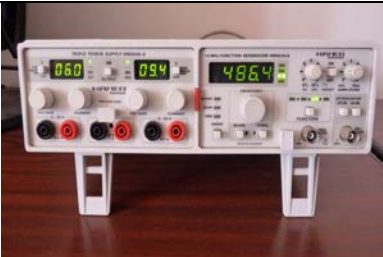


## EQUIPMENTS IN CCMSPS

| Nr. | Equipment                  | Manufacturer      | Data sheet (pdf) (link)                                                                                                                                                   | Characteristics                                                                                                                                                                     | Photo                                                                                 |
|-----|----------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1   | Spectrum Analyzer FSL6     | Rohde & Schwarz   | <a href="https://www.rohde-schwarz.com/us/product/fsl-productstartpage_63493-8042.html">https://www.rohde-schwarz.com/us/product/fsl-productstartpage_63493-8042.html</a> | 6GHz bandwidth, Tracking Generator, LCD display, interfaces USB, Ethernet, GPIB.                                                                                                    |    |
| 2   | Spectrum Analyzer HM5014-2 | Hameg Instruments | <a href="http://www.farnell.com/datasheets/318524.pdf">http://www.farnell.com/datasheets/318524.pdf</a>                                                                   | 1GHz bandwidth with Trachink generator, RS232 interfaces<br>+<br>HZ531 Sniffer probes kit: Electric field probe HZ530-E, Magnetic field probe HZ530-M, High impedance probe HZ530-H |   |
| 3   | Oscilloscope Hameg H303-6  | Hameg Instruments | <a href="http://www.farnell.com/datasheets/56832.pdf">http://www.farnell.com/datasheets/56832.pdf</a>                                                                     | 2 analogue channel, 35Mhz bandwidth                                                                                                                                                 |  |
| 4   | Function Generator         | Hameg Instruments | <a href="http://www.tme.eu/ro/Document/ce7add5bb422cd8d7fdc121a">http://www.tme.eu/ro/Document/ce7add5bb422cd8d7fdc121a</a>                                               | 10 MHz, sine, triangle, square waveform; sweep function.                                                                                                                            |                                                                                       |

|   |                                                                  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                  |                                                                                      |
|---|------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   | HM8030-6<br>+<br>Triple Power<br>Supply<br>HM8040-3              | s<br>Hameg<br>Instrument<br>s | <a href="http://c1e5d274/HM8030_6_D_E_F_S.pdf">c1e5d274/HM8030_6_D_E_F_S.pdf</a><br><a href="http://www.tme.eu/ro/Document/c5690750d59bcbd75c1825f206033a48/data_en_HM8030_6.pdf">http://www.tme.eu/ro/Document/c5690750d59bcbd75c1825f206033a48/data_en_HM8030_6.pdf</a><br><a href="http://www.tme.eu/ro/Document/3d153e56d7faf7c62268447ada4d4ff1/HM8040-3_D_GB_F_E.pdf">http://www.tme.eu/ro/Document/3d153e56d7faf7c62268447ada4d4ff1/HM8040-3_D_GB_F_E.pdf</a><br><a href="http://www.tme.eu/ro/Document/87c762facbf8244b757460e0802b6bc3/data_en_HM8040_3.pdf">http://www.tme.eu/ro/Document/87c762facbf8244b757460e0802b6bc3/data_en_HM8040_3.pdf</a> | 2 x 20V/0,5A adjustable, 1x 5V/1A, shortcircuit protection/current limiting/electronic fuse.                                     |   |
| 5 | Function/Arbitrary<br>Waveform<br>generators<br>Rigol<br>DG2021A | Rigol                         | <a href="http://www.rigol-france.com/RIGOL/Serie-DG2000/">http://www.rigol-france.com/RIGOL/Serie-DG2000/</a><br><a href="http://www.batronix.com/shop/waveform-generator/Rigol-DG2021A.html">http://www.batronix.com/shop/waveform-generator/Rigol-DG2021A.html</a><br><a href="http://www.batronix.com/pdf/oscilloscopes/Rigol/DG2000-Manual.pdf">http://www.batronix.com/pdf/oscilloscopes/Rigol/DG2000-Manual.pdf</a>                                                                                                                                                                                                                                     | 25 MHz, 100Ms/s, signal shape: sine, square, ramp, arbitrary, noise; modulated signals AM, FM, FSK;<br>Interfaces GPIB, USB, LAN |  |

|   |                                      |                   |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |                                                                                      |
|---|--------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 6 | Arbitrary Waveform generators WW5061 | Tabor Electronics | <a href="http://www.taborelec.com/ww5061">http://www.taborelec.com/ww5061</a>                                                                                                                                                                                                                                                            | 25 MHz, 50Ms/s, Color LCD Display; Signal shape: sine, square, triangle, arbitrary; Modulated signals AM, FM, FSK; Interfaces: GPIB, LAN, USB; |   |
| 7 | Dual DC Power Supply DF1731SL5A      | Protek            | <a href="http://www.meterdigital.com/produkt/protek-df1731sl5a-dual-output-power-supply-30v-5a">http://www.meterdigital.com/produkt/protek-df1731sl5a-dual-output-power-supply-30v-5a</a><br><a href="http://www.mem-gmbh.de/Protek_DF1731SL3A_1731SL5A_1731SB3A.pdf">http://www.mem-gmbh.de/Protek_DF1731SL3A_1731SL5A_1731SB3A.pdf</a> | Output Voltage [0, 35V]; I <sub>max</sub> = 3A; Protection scurtcircuit                                                                        |   |
| 8 | Frequency Counter 53181A             | Agilent           | <a href="http://literature.cdn.keysight.com/litweb/pdf/5967-6039EN.pdf?id=1000071171:epsg:dow">http://literature.cdn.keysight.com/litweb/pdf/5967-6039EN.pdf?id=1000071171:epsg:dow</a>                                                                                                                                                  | 1.5Ghz, 2 channels, Interfaces: GPIB (IEEE 488.1, IEEE 488.2)                                                                                  |   |
| 9 | Digital RLC Meter                    | Escort            | <a href="https://www.proditec.ch/proditec/downloads/a_en/ecELC132A-133A_en.pdf">https://www.proditec.ch/proditec/downloads/a_en/ecELC132A-133A_en.pdf</a>                                                                                                                                                                                | Portable, LCD display, autoscale, 100Hz, 120Hz, 1Khz, 10kHz frequency measuring; phase, quality factor and loss factor measuring               |  |

|    |                                                     |                     |                                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                      |
|----|-----------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 10 | Digital Multimeter Appa 305                         |                     | <a href="http://www.appatech.com/upload/download/file11356497049909.pdf">http://www.appatech.com/upload/download/file11356497049909.pdf</a><br><a href="http://www.arc.ro/userfiles/docs/ecommm/Manual%20APPA%20301_303_305.pdf">http://www.arc.ro/userfiles/docs/ecommm/Manual%20APPA%20301_303_305.pdf</a> |                                                                                             |   |
| 11 | Digital Multimeters Protek                          | Protek              | <a href="http://www.tehranelectronics.com/PDF/multimeter/handheld/Protek%20506.PDF">http://www.tehranelectronics.com/PDF/multimeter/handheld/Protek%20506.PDF</a>                                                                                                                                            |                                                                                             |                                                                                      |
| 12 | Digital Multimeter Velleman DVM891                  |                     | <a href="http://www.velleman.eu/products/view/?country=nl&amp;lang=en&amp;id=349121">http://www.velleman.eu/products/view/?country=nl&amp;lang=en&amp;id=349121</a><br><a href="http://www.velleman.eu/downloads/1/dvm891gbnlfresd.pdf">http://www.velleman.eu/downloads/1/dvm891gbnlfresd.pdf</a>           | Digital 3 digit Ohmeter, AC/DC Voltmeter, AC/DC Amperemeter, Capacimeter, Temperature Meter |                                                                                      |
| 13 | Test Generators VMS-1 For Digital Switching Systems | Wandel & Goltermann | <a href="http://wandel-goltermann.industrialpartner.com/products-v/vms-1.htm">http://wandel-goltermann.industrialpartner.com/products-v/vms-1.htm</a>                                                                                                                                                        | 2048 Kbit/s, PCM 30,                                                                        |  |
| 14 | Test Receiver VME-1 For Digital Switching Systems   | Wandel & Goltermann | <a href="http://wandel-goltermann.industrialpartner.com/products-v/vms-1.htm">http://wandel-goltermann.industrialpartner.com/products-v/vms-1.htm</a>                                                                                                                                                        | 2048 Kbit/s, PCM 30                                                                         |                                                                                      |

|    |                                   |                     |  |                                                                                                                                                                            |                                                                                      |
|----|-----------------------------------|---------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    | PCM Digital Signal Analyser PDA-3 | Wandel & Goltermann |  | 2048 Kbit/s, RZ, NRZ, AMI, 8 bits code word.                                                                                                                               |   |
| 15 | Digital Error Rate Metter PFM-1   | Wandel & Goltermann |  | 2048 Kbit/s, Maximum error count 99999, differential/ non-differential input, 120/ 75 ohms, 17/15 bit pattern, 0-64 zeros bit blanking, line code selection (NRZ, RZ etc.) |   |
| 16 | PCM Pattern Generator PFG-1       | Wandel & Goltermann |  | Input phase modulation signal frequency [10Hz-200kHz], maximum transmission rate 3 Mb/s, binary codes NRZ, RZ, AMI (1/1), AMI (1/2), HDB-3.                                |  |

|    |                                         |                     |                     |                                                                                                                                                                                      |                                                                                       |
|----|-----------------------------------------|---------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 16 | PCM Jitter Generator PJG-1              | Wandel & Goltermann |                     | external clock input 2048 or 8448 kHz, frequency of signal for jitter control [0-400] kHz, jitter amplitude control                                                                  |    |
| 17 | WG ASA-200 analyzer for telephone lines | Wandel & Goltermann | Wandel & Goltermann | Analyzer for testing local access telephony lines and subscriber loop , QoS evaluation on subscriber loop (Network Termination Point), Transmission, Signalling and Dialling testes. |    |
| 18 | Miniport receiver EB 100                | Rohde & Schwarz     | Rohde Schwarz       | 20-1000 MHz, Radiofrequency receiver with IF band 7,5-150 MHz, Signal level indicator, AM/FM modulation.                                                                             |   |
| 19 | Telephone switching system              | LD Didactic         | Leybold Didactic    | DECT System, space and time switching technology, USB connection to PC                                                                                                               |  |



|    |                                      |                 |                                                                                                                                                                                 |                                                                                                                              |                                                                                      |
|----|--------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 20 | AT3000 - Waveguide Experiment System | Gratten         | <a href="http://en.gratten.cn/Educational_Training_Kits/Waveguide_Training_System/38.html">http://en.gratten.cn/Educational_Training_Kits/Waveguide_Training_System/38.html</a> | Gunn Oscillator based system, Directional Coupler & Horn Antenna, Frequency: 8GHz ~ 12.4GHz (X-Band), Microwave output: 15mV |   |
| 21 | HE 100 directional active antenna    | Rohde & Schwarz | <a href="http://www.atecorp.com/products/rohde-schwarz/he-100.aspx">http://www.atecorp.com/products/rohde-schwarz/he-100.aspx</a>                                               | 20-200MHz, 200-500MHz, 500- 1000MHz measurement bandwidth antennas                                                           |  |

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|----|-------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 22 | Anadigm development board AN221E04              | Anadigm   | <a href="http://www.anadigm.com/doc/UM022100-K003.pdf">http://www.anadigm.com/doc/UM022100-K003.pdf</a><br><a href="http://www.anadigm.com/vortex-devkit.asp">http://www.anadigm.com/vortex-devkit.asp</a>                                                                                                                                                                   | AN221E04 dpASP chip, 16-MHz oscillator, serial RS232 interface, 5V power supply.                                                                                                                                                                                                                                                                |   |
| 23 | ZigBee Development Board JN5139-EK010           | Jennic    | <a href="http://media.digikey.com/pdf/Data%20Sheets/Jennic%20PDFs/JN5139-EK010-Getting-Started-1v2.pdf">http://media.digikey.com/pdf/Data%20Sheets/Jennic%20PDFs/JN5139-EK010-Getting-Started-1v2.pdf</a>                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                 |   |
| 24 | Telegesis ETRX2DVKA Plus ZigBee Development Kit | Telegesis | <a href="http://www.telegesis.com/download/document-centre/user_guides_and_product_manuals/TG-ETRX2DVK-PM-005-303.pdf">http://www.telegesis.com/download/document-centre/user_guides_and_product_manuals/TG-ETRX2DVK-PM-005-303.pdf</a><br><a href="http://www.iec.dk/UserFiles/Telegesis%20ETRX2%20Range.pdf">http://www.iec.dk/UserFiles/Telegesis%20ETRX2%20Range.pdf</a> | 1 x ETRX2DV Development Board<br>1 x ETRX2HW Module with a fitted Harwin<br>1 x ETRX2MCB Carrier Boards fitted with ETRX2 modules<br>1 x ETRX2-PA MCB with ETRX2-PA Module<br>1 x AA Battery Holders with leads<br>1 x ETRX2USB USB stick<br>1 x ETRX2HRHW-PA Module with Hirose connector for external antenna and Harwin 1 x 1/2 Wave antenna |  |



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|----|----------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 25 | GSM/GPRS/<br>GPS<br>Evaluation<br>Board EVK2 | Telit | <a href="http://www.telit.com/fileadmin/user_upload/products/Downloads/2G/Telit_EvaluationKit_EVK2_Datasheet.pdf">http://www.telit.com/fileadmin/user_upload/products/Downloads/2G/Telit_EvaluationKit_EVK2_Datasheet.pdf</a><br><br><a href="http://www.telit.com/fileadmin/user_upload/products/Downloads/2G/Telit_EVK2_User_Guide_r19.pdf">http://www.telit.com/fileadmin/user_upload/products/Downloads/2G/Telit_EVK2_User_Guide_r19.pdf</a><br><br><a href="https://www.telematica.uk.com/product/TLT-0001/Telit/GM862-GPS/Telit-GSM---GPS-(-GM862-GPS-module-)">https://www.telematica.uk.com/product/TLT-0001/Telit/GM862-GPS/Telit-GSM---GPS-(-GM862-GPS-module-)</a> | <p>Evaluation Board EVK2,<br/>GM862 GPRS - Cellular Quad Band 850/900/1800/1900 Mhz, GPRS Class 10,<br/>GM862-GPS - Cellular Quad Band Module with GPS,<br/>GSM antenna,<br/>GPS antenna</p> |  |
|----|----------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

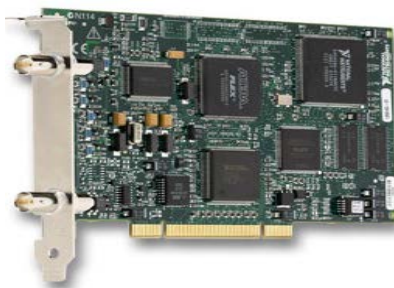
|    |  |          |                                                         |                                                                                     |                                                                                                                                                                          |
|----|--|----------|---------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26 |  | TOPEX 3a | <a href="http://www.topex.ro/">http://www.topex.ro/</a> | PABX configurable switching module, 248 ports capacity, 8 trunks and 40 extensions. |   |
|----|--|----------|---------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

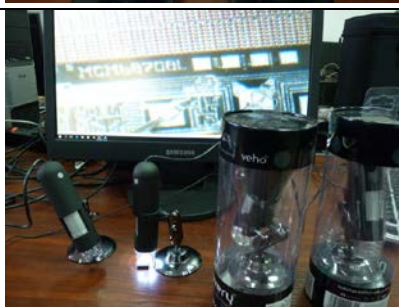
|    |                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                  |                                                                                      |
|----|------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 27 | Telephone System<br>Galaxy BBS<br>Telecom IPS<br>416 | BBS<br>Telecom | <a href="http://www.bbsgroup.com.sg/images/pdf/manual/ipsuserguide_jun06.pdf">http://www.bbsgroup.com.sg/images/pdf/manual/ipsuserguide_jun06.pdf</a><br><a href="http://www.bbs.com.sg/pabx.html">http://www.bbs.com.sg/pabx.html</a>                                                                                                                                                                                                                                                                                                                                                                  | PBX IPS Telephone system, 4 trunks, 16 extensions, Serial programming interface. |   |
| 28 | Cisco IP<br>Phone 7960                               | Cisco          | <a href="http://www.uic.edu/depts/accc/voip/Cisco-7960-guide.pdf">http://www.uic.edu/depts/accc/voip/Cisco-7960-guide.pdf</a><br><a href="http://web.mst.edu/~mhays/professional/CCM4-QuickStartGuide-7940&amp;60.pdf">http://web.mst.edu/~mhays/professional/CCM4-QuickStartGuide-7940&amp;60.pdf</a><br><a href="http://www.cisco.com/c/en/us/products/collateral/collaboration-endpoints/unified-ip-phone-7940g/product_data_sheet09186a008008884a.html">http://www.cisco.com/c/en/us/products/collateral/collaboration-endpoints/unified-ip-phone-7940g/product_data_sheet09186a008008884a.html</a> | IP Phone<br>LCD,<br>SIP protocol<br>48V DC Supply                                |  |

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|----|-------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |                               |                      | <a href="http://www.cisco.com/c/en/us/support/docs/collaboration-endpoints/unified-ip-phone-7900-series/5455-handset-to-sip.html">http://www.cisco.com/c/en/us/support/docs/collaboration-endpoints/unified-ip-phone-7900-series/5455-handset-to-sip.html</a> |                                                                                                                                                                                                  |                                                                                     |
| 29 | Linksys PAP2-NA Phone Adapter | Cisco                | <a href="https://www.inphonex.com/support/linksys-pap2-configuration.php">https://www.inphonex.com/support/linksys-pap2-configuration.php</a>                                                                                                                 | VoIP internet phone adapter                                                                                                                                                                      |  |
| 30 | NI-USB6251M DAQ Module        | National Instruments | <a href="http://www.ni.com/pdf/manuals/371022k.pdf">http://www.ni.com/pdf/manuals/371022k.pdf</a><br><a href="http://www.ni.com/pdf/manuals/371291g.pdf">http://www.ni.com/pdf/manuals/371291g.pdf</a>                                                        | Multifunctional I/O DAQ module,<br>- USB interface<br>- 16 analog inputs, 16bit resolution, 1.25Ms/s<br>- 2 analog outputs, 16 bit, resolution, 2.8Ms/s<br>- 24 Digital I/O<br>- 2 Counter/timer |  |

|    |                                                                                              |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                    |                                                                                      |
|----|----------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 31 | NI-USB6212 DAQ Module                                                                        | National Instruments | <a href="http://www.ni.com/datasheet/pdf/en/ds-9">http://www.ni.com/datasheet/pdf/en/ds-9</a><br><a href="http://www.ni.com/pdf/manuals/371931f.pdf">http://www.ni.com/pdf/manuals/371931f.pdf</a>                                                                                                                                                                                                                                                                                                                                  | <p>Multifunctional I/O DAQ module,</p> <ul style="list-style-type: none"> <li>- USB interface</li> <li>- 16 analog inputs, 16bit resolution, 400Ks/s</li> <li>- 2 analog outputs, 16 bit,</li> <li>- 32 Digital I/O</li> <li>- 2 Counter/timer, 32 bit</li> </ul>                                                                  |   |
| 32 | NI-USB6009 DAQ Module                                                                        | National Instruments | <a href="http://www.ni.com/pdf/manuals/371303n.pdf">http://www.ni.com/pdf/manuals/371303n.pdf</a><br><a href="http://home.hit.no/~finnh/videos/topics/labview_analog_io/371303.pdf">http://home.hit.no/~finnh/videos/topics/labview_analog_io/371303.pdf</a>                                                                                                                                                                                                                                                                        | <p>Multifunctional I/O DAQ module,</p> <ul style="list-style-type: none"> <li>- USB interface</li> <li>- 8 analog inputs, 14bit resolution, 10Ks/s</li> <li>- 2 analog outputs, 12 bit,</li> <li>- 12 Digital I/O</li> <li>- 1 Counter/timer, 32 bit</li> </ul>                                                                    |   |
| 33 | I-7000 Series Remote Acquisition Modules (I-7017, I-7012) + I-7520 Bus Convertor RS232/RS485 |                      | <a href="http://www.icpdas.com/root/product/solutions/remote_io/rs-485/i-7000_m-7000/i-7017.html">http://www.icpdas.com/root/product/solutions/remote_io/rs-485/i-7000_m-7000/i-7017.html</a><br><br><a href="http://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/7017-18-19_english.pdf">http://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/7017-18-19_english.pdf</a><br><br><a href="http://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/7520.pdf">http://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/7520.pdf</a> | <p>DAQ modules<br/>RS485 communication interface<br/>Optical isolation</p> <p>I-7107: 8 channel differential analog inputs, 16 bit resolution</p> <p>I-7112: 1 channel differential analog inputs, 16 bit resolution, 1 DI, 2 DO</p> <p>I-7520 Bus Convertor RS232/RS485, Variable baudrate: 300-115Kbaud/s, optical isolation</p> |  |



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|----|------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 34 | DAQ Card NI-PCI 6221               | National Instruments   | <a href="http://sine.ni.com/nips/cds/view/p/lang/en/nid/14132">http://sine.ni.com/nips/cds/view/p/lang/en/nid/14132</a><br><a href="http://www.ni.com/datasheet/pdf/en/ds-15">http://www.ni.com/datasheet/pdf/en/ds-15</a>     | Multifunctional I/O DAQ module,<br>- PCI interface<br>- 16 analog inputs, 16bit resolution, 250Ks/s<br>- 2 analog outputs, 16 bit,<br>- 24 Digital I/O<br>- 2 Counter/timer, 32 bit                                                                                                                                                                                                              |    |
| 35 | Reconfigurable I/O DAQ PXI - 7833R | National Instruments   | <a href="http://sine.ni.com/nips/cds/view/p/lang/en/nid/202009">http://sine.ni.com/nips/cds/view/p/lang/en/nid/202009</a><br><a href="http://www.ni.com/pdf/manuals/370489d.pdf">http://www.ni.com/pdf/manuals/370489d.pdf</a> | PXI reconfigurable I/O DAQ<br>- 8 analog inputs, independent sampling rates up to 200 kHz, 16-bit resolution, $\pm 10$ V<br>- 8 analog outputs, independent update rates up to 1 MHz, 16-bit resolution, $\pm 10$ V<br>- 96 digital lines configurable as inputs, outputs, counters, or custom logic at rates up to 40 MHz<br>- Virtex-II 3M gate FPGA programmable with the LabVIEW FPGA Module |    |
| 36 | DAQ NI PCI-1405                    | National Instruments   | <a href="http://www.ni.com/pdf/manuals/373687b.pdf">http://www.ni.com/pdf/manuals/373687b.pdf</a>                                                                                                                              | DAQ for image acquisition, monochrome and color (PAL, NTSC), Labview compatible, PCI interface                                                                                                                                                                                                                                                                                                   |   |
| 37 | MegaAVR Module                     | SC. Sanatronic CCP Srl | <a href="http://www.atmel.com/Images/doc7593.pdf">http://www.atmel.com/Images/doc7593.pdf</a>                                                                                                                                  | AT90USB1287, LCD, Data acquisition and communication module,<br>Interfaces: USB, Ethernet, serial                                                                                                                                                                                                                                                                                                |  |

|    |                                    |           |                                                                                                                                                                                           |                                                                                                                                                                                                                                                        |                                                                                       |
|----|------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 38 | PLC Siemens Simatic S7-200         | Siemens   | <a href="http://www.tme.eu/ro/Document/ee6d4e4e8250c1c8d718640660420589/6ES7211-0BA23-0XB0.pdf">http://www.tme.eu/ro/Document/ee6d4e4e8250c1c8d718640660420589/6ES7211-0BA23-0XB0.pdf</a> | CPU221,<br>AC/DC/RLY<br>4 DO Relay<br>6 DI                                                                                                                                                                                                             |    |
| 39 | PLC Siemens Simatic S7-300         |           | <a href="http://www.electropinou-dz.com/files/products/6ES7315-1AF03-0AB0.pdf">http://www.electropinou-dz.com/files/products/6ES7315-1AF03-0AB0.pdf</a>                                   | CPU 315<br>24V DC Supply                                                                                                                                                                                                                               |    |
| 40 | LCD Digital Microscope Model 44340 | Celestron | <a href="http://www.celestron.com/c3/images/files/downloads/1265967994_44340manual5lan.pdf">http://www.celestron.com/c3/images/files/downloads/1265967994_44340manual5lan.pdf</a>         | 2MP CMOS;<br>LCD Display 3.5" with 4x Digital Zoom – High definition digital TFT display 320x240 pixels<br>Objective Achromatic 4x, 10x and 40x<br>USB interface, 512MB flash Memory<br>Top and Bottom Led illuminator<br>Mechanical Stage 3.5" x 3.5" |   |
| 41 | USB Microscope VMS 004D            | Veho      | <a href="http://www.veho-uk.com/main/shop_detail.aspx?article=40&amp;mode=specifications">http://www.veho-uk.com/main/shop_detail.aspx?article=40&amp;mode=specifications</a>             | Adjustable illumination with LEDs;<br>2MP CMOS;<br>20x - 400x magnification<br>USB interface<br>Snapshot and movie function                                                                                                                            |  |

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|----|--------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 42 | P5 Glove - Virtual Reality Glove Model 101 | Essential Reality Inc.               | <a href="http://www.mindflux.com.au/products/essentialreality/p5glove.html#specifications">http://www.mindflux.com.au/products/essentialreality/p5glove.html#specifications</a>                                                                                                                                                          | Resistive 5 fingers glove<br>Optical sensors<br>USB interface                                                                                                                                                                                                                                                                                                           |   |
| 43 | Programmable Function Generator G5100      | Seintek (SEIN Electronics Co., Ltd.) | <a href="http://seintek.en.ecplaza.net/15mhz-programmable-sweep-function-generator--19425-28661.html">http://seintek.en.ecplaza.net/15mhz-programmable-sweep-function-generator--19425-28661.html</a><br><a href="http://www.aparate-masura-control.ro/docs/1b72-G5100.pdf">http://www.aparate-masura-control.ro/docs/1b72-G5100.pdf</a> | Waveform: 15MHz Sine, Square Wave; 100KHz Triangle and Ramp Wave;<br>Mode: CW, BURST, SWEEP, TRIG;<br>Frequency Range: 1Hz - 15MHz;<br>Resolution: 4 Digits;<br>DC Offset: -7.5V ~ +7.5 V;<br>128x64 pixel Super Twisted LCD display;<br>Remote Control: Function and ranges may be controlled from PC via the RS232 or the optional GP-IB interface                    |   |
| 44 | Programmable Digital Multimeter B4100      | Seintek (SEIN Electronics Co., Ltd.) | <a href="http://seintek.en.ecplaza.net/200-000-count-programmable-digital--19425-28659.html">http://seintek.en.ecplaza.net/200-000-count-programmable-digital--19425-28659.html</a><br><a href="http://www.aparate-masura-control.ro/docs/5a4c-B4100.pdf">http://www.aparate-masura-control.ro/docs/5a4c-B4100.pdf</a>                   | Measurement: DCV, ACV, OHM, BEEP, DIODE, FREQ, DC uA/mA, DCA, AC uA/mA and ACA<br>Resolution: 5 1/2 Digits (200,000 Count);<br>Accuracy: 0.001ohm, Error : 0.05%;<br>True RMS, AC;<br>Range: Full Auto Range;<br>128x64 pixel Super Twisted LCD display;<br>Remote Control: Function and ranges may be controlled from PC via the RS232 or the optional GP-IB interface |  |

|    |                                              |                                      |                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |
|----|----------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 45 | Programmable Switching Power Supply P6100    | Seintek (SEIN Electronics Co., Ltd.) | <a href="http://seintek.en.ecplaza.net/3c-h-programmable-switching-power-supply--19425-28662.html">http://seintek.en.ecplaza.net/3c-h-programmable-switching-power-supply--19425-28662.html</a><br><br><a href="http://www.aparate-masura-control.ro/docs/c012-P6100.pdf">http://www.aparate-masura-control.ro/docs/c012-P6100.pdf</a> | <p>Triple Output<br/> DUAL Voltage, Ampere: DC+30V/3A, DC-30V/3A;<br/> Fixed Voltage, Ampere: DC 5V/2A;<br/> Output: ON / OFF Control<br/> Key Lock: Key Lock to Avoid Error Operation;<br/> Protection: Overload Voltage, Ampere<br/> Protection: (SMPS)<br/> Protect over heat and Overload<br/> CC, CV Set: AUTO Set<br/> Tracking: AUTO Tracking Range: Full Auto Range;<br/> 128x64 pixel Super Twisted LCD display;<br/> Remote Control: Function and ranges may be controlled from PC via the RS232 or the optional GP-IB interface</p>                                                                    |   |
| 46 | Cable TV Signal Analyzer - SignalScout RF151 |                                      | <a href="http://www.technicome.com/pdf/RFM151.pdf">http://www.technicome.com/pdf/RFM151.pdf</a><br><br><a href="http://exodus.poly.edu/~kurt/manuals/manuals/Tektronix/TEK%20RFM151%20Instruction.pdf">http://exodus.poly.edu/~kurt/manuals/manuals/Tektronix/TEK%20RFM151%20Instruction.pdf</a>                                       | <p>SPECTRUM MODES<br/> Modes –<br/> General Purpose (Dual/Noise/No markers).<br/> Demod (AM, FM detectors, speaker);<br/> Ingress Monitor<br/> (up to 32 user-defined thresholds within a displayed spectrum).<br/> Common Specifications –<br/> Frequency Range: 5 to 1080 MHz.<br/> Span/Division: 4 MHz, 2 MHz, 1 MHz, 400 kHz, 200kHz.<br/> Resolution Bandwidth:<br/> Span ≥1 MHz: 300 kHz.<br/> Span &lt;1MHz: 30kHz.<br/> Sensitivity: –60 dBmV (–65 dBmV typical).<br/> Spurious Free Dynamic Range:<br/> 20 to 1080 MHz: ≥–50 dBc.<br/> 5 to 20 MHz: ≤–40 dBc.<br/> Detection Mode: Peak or Average.</p> |  |

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|    |                                           |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vertical Scales: 2, 5, 10, 15 dB/Div.<br>Other Controls: Preamp, Max Hold.                                                                                                                                 |                                                                                      |
| 47 | Digital Storage Oscilloscope              | Tektronix                   | <a href="http://www.tek.com/datasheet/tds1000b-series-digital-storage-oscilloscopes-datasheet">http://www.tek.com/datasheet/tds1000b-series-digital-storage-oscilloscopes-datasheet</a><br><br><a href="http://www.tek.com/sites/tek.com/files/media/media/resources/TDS1000-Oscilloscope-Datasheet-3GW256444.pdf">http://www.tek.com/sites/tek.com/files/media/media/resources/TDS1000-Oscilloscope-Datasheet-3GW256444.pdf</a> | 2 channels, 60MHz;<br>Sample rates up to 1 GS/s real time;<br>Monochrome LCD display;<br>FFT measurement;<br>12 automatic measurements;<br>USB Interface for PC connection;<br>USB data storage interface; |   |
| 48 | Digital Oscilloscope – Analyzer MTX3352-C | Metrix                      | <a href="http://www.es-france.com/pdf/MTX3252.pdf">http://www.es-france.com/pdf/MTX3252.pdf</a>                                                                                                                                                                                                                                                                                                                                  | 2 channels, 100MHz;<br>100Ms/s - 50Gs/s, 8 bit resolution;<br>Colour LCD;<br>FFT;<br>Rs232 interface;                                                                                                      |   |
| 49 | Easy Pic 5                                | Microchip, Microelectronica | <a href="http://www.mikroe.com/easyPIC/v5/">http://www.mikroe.com/easyPIC/v5/</a>                                                                                                                                                                                                                                                                                                                                                | PIC microcontroller development board,<br>LDC alphanumeric,<br>LCD graphic,<br>USB interface.                                                                                                              |  |



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|----|--------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------|
| 50 | Analogue Dual Channel Oscilloscope HC 6502 | Hung Chang | <a href="http://datasheet.octopart.com/6502-HC-Protek-datasheet-157563.pdf">http://datasheet.octopart.com/6502-HC-Protek-datasheet-157563.pdf</a><br><a href="http://www.gigatest.net/hungchang/protek-6502.htm">http://www.gigatest.net/hungchang/protek-6502.htm</a>                                                                                                 | 2 analogue channels, 20MHz bandwidth               |   |
| 51 | Soldering Station WDS81                    | Weller     | <a href="http://ro.farnell.com/weller/wsd-81-uk/soldering-station-80w-230v-uk/dp/1877455">http://ro.farnell.com/weller/wsd-81-uk/soldering-station-80w-230v-uk/dp/1877455</a><br><a href="http://www.tme.eu/ro/Document/198465c5e805fd5aea4a16bf04cc8e7b/OI_WSD%208169650.pdf">http://www.tme.eu/ro/Document/198465c5e805fd5aea4a16bf04cc8e7b/OI_WSD%208169650.pdf</a> | microprocessor-controlled soldering station WSD 81 |   |
| 52 | HM303-4 Analog Oscilloscope                | HAMEG      | <a href="http://www.electrobreizh.com/upload/files/HAMEG%20HM3034_english.pdf">http://www.electrobreizh.com/upload/files/HAMEG%20HM3034_english.pdf</a>                                                                                                                                                                                                                | 2 canale, 35MHz, analogic                          |   |
| 53 | Tektronix TDS1012 Digital Oscilloscope     | Tektronix  | <a href="http://www.upc.edu/sct/document/equipament/d_109_id-533.pdf">http://www.upc.edu/sct/document/equipament/d_109_id-533.pdf</a>                                                                                                                                                                                                                                  | 2 canale, 100MHz, digital                          |  |



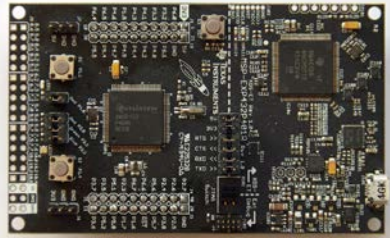
|    |                                     |         |                                                                                                                                                                           |                           |                                                                                      |
|----|-------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------|
| 54 | HM-5014-2<br>Spectral<br>Analizor   | HAMEG   | <a href="http://www.appliedin.com/www/assets/products/HM_5014-2/HM5014-2_DataSheet.pdf">http://www.appliedin.com/www/assets/products/HM_5014-2/HM5014-2_DataSheet.pdf</a> | 1 canal, 100KHz-2G        |   |
| 55 | HM 404<br>Analog<br>Oscilloscope    | HAMEG   | <a href="http://www.sm5cbw.se/hameg/hmosc/hm404-2.pdf">http://www.sm5cbw.se/hameg/hmosc/hm404-2.pdf</a>                                                                   | 2 canale, 40MHz, analogic |   |
| 56 | PROTEK 506<br>Digital<br>Multimeter | PROTEK  | <a href="http://www.tehranelectronics.com/PDF/multimeter/handheld/Protek%20506.PDF">http://www.tehranelectronics.com/PDF/multimeter/handheld/Protek%20506.PDF</a>         | Multimetru digital        |   |
| 57 | MS5300 LRC<br>Meter                 | MASTECH | <a href="http://panda-bg.com/datasheet/629-340093-LCR-Meter-MS5300.pdf">http://panda-bg.com/datasheet/629-340093-LCR-Meter-MS5300.pdf</a>                                 | Punte RLC                 |  |

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|----|---------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|
| 58 | VA 318<br>Clamp Meter                 | ELIKE   | <a href="http://www.hvacstore.co.uk/catalog/VA316%20VA318%20manual.pdf">http://www.hvacstore.co.uk/catalog/VA316%20VA318%20manual.pdf</a>                                                                   | Multimetru digital cu clești |    |
| 59 | NB 8000R<br>Multimeter                | FLUKE   | <a href="http://assets.fluke.com/manuals/15x7_umeng0000.pdf">http://assets.fluke.com/manuals/15x7_umeng0000.pdf</a>                                                                                         | Multimetru digital           |    |
| 60 | MTX 3352-C<br>Digital<br>Oscilloscope | METRIX  | <a href="https://www.sge.com.tr/dosyalar/site_resim/urunler/urundosya/5902269.pdf">https://www.sge.com.tr/dosyalar/site_resim/urunler/urundosya/5902269.pdf</a>                                             | 2 canale, 100MHz, digital    |   |
| 61 | LAB/ec 2305<br>Power<br>Supply        | TWINTEx | <a href="http://www.tme.eu/html/EN/linear-3-channel-laboratory-power-supplies/ramka_14015_EN_pelny.html">http://www.tme.eu/html/EN/linear-3-channel-laboratory-power-supplies/ramka_14015_EN_pelny.html</a> | Sursa tensiune duala 30V-5A  |  |

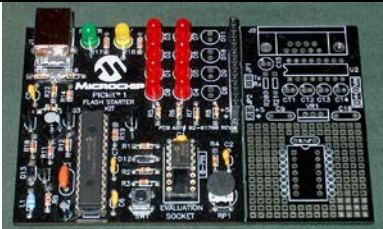
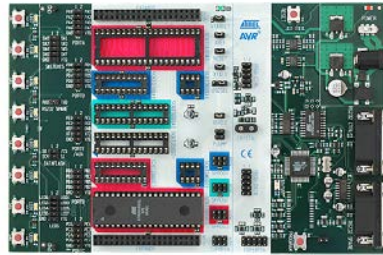
|    |                                                          |          |                                                                                                                                                                     |                             |                                                                                      |
|----|----------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------|
| 62 | HM 8040<br>Power<br>Supply                               | HAMEG    | <a href="http://docs-europe.electrocomponents.com/webdocs/04ef/0900766b804efe01.pdf">http://docs-europe.electrocomponents.com/webdocs/04ef/0900766b804efe01.pdf</a> | Sursa tensiune duala 20V-2A |   |
| 63 | HM8030-5<br>Function<br>Generator                        | HAMEG    | <a href="http://www.ens-lyon.fr/DSM/AGREG-Physique/oral/Notices/N027-009.pdf">http://www.ens-lyon.fr/DSM/AGREG-Physique/oral/Notices/N027-009.pdf</a>               | Generator semnal 0-10MHz    |   |
| 64 | IT6322<br>Power<br>Supply                                | ITECHATE | <a href="http://www.itechate.com/Upload/File/20150806154937.pdf">http://www.itechate.com/Upload/File/20150806154937.pdf</a>                                         | Sursa tensiune programabila |   |
| 65 | Function<br>Arbitrary<br>Waveform<br>Generator<br>DG3061 | RIGOL    | <a href="http://www.batronix.com/pdf/Rigol/UserGuide/DG3000_User_Guide_EN.pdf">http://www.batronix.com/pdf/Rigol/UserGuide/DG3000_User_Guide_EN.pdf</a>             | Generator semnal 1CH, 60Mhz |  |

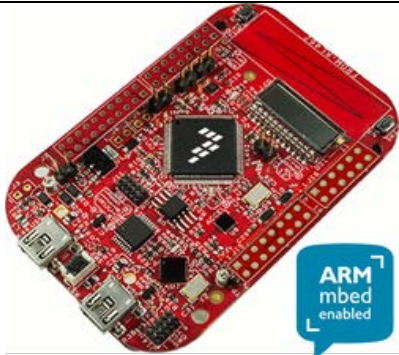
|    |                           |                   |                                                                                                                                                                                                                                                                                                     |                                                                                                                                                               |                                                                                      |
|----|---------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 66 | Spectrum Analyzer HM5530  | HAMEG             | <a href="http://www.farnell.com/datasheets/39038.pdf">http://www.farnell.com/datasheets/39038.pdf</a>                                                                                                                                                                                               | 1 Canal, 3Ghz                                                                                                                                                 |   |
| 67 | RF-Synthesizer HM8135     | HAMEG             | <a href="http://cdn.rohde-schwarz.com/pws/dl_downloads/dl_common_library/dl_manuals/gb_1/h/hm8135_x/HM8135_X_RF_Synthesizer_UserManual_de_en_03.pdf">http://cdn.rohde-schwarz.com/pws/dl_downloads/dl_common_library/dl_manuals/gb_1/h/hm8135_x/HM8135_X_RF_Synthesizer_UserManual_de_en_03.pdf</a> | 1 Canal, 3Ghz                                                                                                                                                 |   |
| 68 | Evaluation KIT TMS320C542 | TEXAS INSTRUMENTS | <a href="http://www.ec66.com/market/sheet/tms320c541.pdf">http://www.ec66.com/market/sheet/tms320c541.pdf</a>                                                                                                                                                                                       | Sisteme dezvoltare DSP cu procesorul TMS320C542<br><br>10Mhz, virgula fixa, comunicatie paralela, codec audio stereo, PLL, porturi generale de intrare iesire |   |
| 69 | Evaluation KIT TMS320C31  | TEXAS INSTRUMENTS | <a href="http://www.ti.com/lit/ds/symlink/tms320c31.pdf">http://www.ti.com/lit/ds/symlink/tms320c31.pdf</a>                                                                                                                                                                                         | Sisteme dezvoltare DSP cu procesorul TMS320C31<br><br>50Mhz, virgula fixa, comunicatie paralela, codec audio stereo, porturi generale de intrare iesire       |  |

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| 70 | Evaluation KIT ADSP 2181           | ANALOG DEVICES    | <a href="http://www.analog.com/media/en/dsp-documentation/evaluation-kit-manuals/442236245ADSP_2181_EZ_KIT_Lite_Legacy.pdf">http://www.analog.com/media/en/dsp-documentation/evaluation-kit-manuals/442236245ADSP_2181_EZ_KIT_Lite_Legacy.pdf</a> | <p>Sisteme dezvoltare DSP cu procesorul ADSP 2181</p> <p>24Mhz, virgula fixa, pipeline pe 4 nivele, comunicatie seriala, codec audio stereo</p>                                                                          |   |
| 71 | Evaluation KIT TMS320C6211 DSK     | TEXAS INSTRUMENTS | <a href="http://www.ti.com/sc/docs/general/dsp/fest99/edu_trackam/dsp_fest_6211_3x_dsk_handout.pdf">http://www.ti.com/sc/docs/general/dsp/fest99/edu_trackam/dsp_fest_6211_3x_dsk_handout.pdf</a>                                                 | <p>Sisteme dezvoltare DSP cu procesorul TMS320C6211</p> <p>25Mhz, virgula mobila, VLIW, PLL, comunicatie paralela, memorie dinamica, memorie statica externa, codec audio stereo, porturi generale de intrare iesire</p> |   |
| 72 | Development Tool MSP430 Value Line | TEXAS INSTRUMENTS | <a href="http://www.ti.com/lit/wp/slay017/slay017.pdf">http://www.ti.com/lit/wp/slay017/slay017.pdf</a>                                                                                                                                           | <p>Sistem de dezvoltare cu uC MSP430G2 de tip ultra-low-power</p> <p>Ultra-low-power, 16kB Flash, 512B RAM, 16MHz CPU, 8ch 10-bit ADC, timers, serial communication (UART, I2C &amp; SPI)</p>                            |  |

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| 73 | Development Kit MSP432P401R            | TEXAS INSTRUMENTS | <a href="http://www.ti.com/lit/ug/slau597a/slau597a.pdf">http://www.ti.com/lit/ug/slau597a/slau597a.pdf</a> | Low-power ARM Cortex-M4F MSP432P401R; 48MHz CPU, 256kB flash, 64kB RAM, 32kB ROM, PWM, I2C, SPI, ADC AES256, 40-pin LaunchPad ; XDS110-ET; UART; UART through USB to PC                                                                                                                         |    |
| 74 | Booster Pack MKII                      | TEXAS INSTRUMENTS | <a href="http://www.ti.com/lit/ug/slau599/slau599.pdf">http://www.ti.com/lit/ug/slau599/slau599.pdf</a>     | TI OPT3001 light sensor, TI TMP006 temperature sensor, Servo motor connector, 3-axis accelerometer, RGB multicolor LED, Piezo buzzer, Color 128x128 TFT LCD display, Microphone, 2-axis joystick with pushbutton, User push buttons, 40-pin BoosterPack standard for use with any LaunchPad kit |    |
| 75 | Development Kit LAUNCHXL-F28027        | TEXAS INSTRUMENTS | <a href="http://www.ti.com/lit/ug/spruh2a/spruhh2a.pdf">http://www.ti.com/lit/ug/spruh2a/spruhh2a.pdf</a>   | Ultra-low-power, TMS320F28027 32-bit Real Time Microcontroller, 60 MHz, 32K Flash, 6K RAM, 4 HRPWM                                                                                                                                                                                              |   |
| 76 | C5000™ Ultra-Low-Power DSP BoosterPack | TEXAS INSTRUMENTS | <a href="http://www.ti.com/lit/ml/sprt630/sprt630.pdf">http://www.ti.com/lit/ml/sprt630/sprt630.pdf</a>     | crystal clear playback and recording of MP3 audio, microSD , Mini-USB , Stereo, MSP430G2553 Value Line Microcontroller<br>pre-programmed with the ACTBP , interface for OLED, Capacitive touch scroll wheel, proximity, sensor and on-board LEDs, OLED display (monochrome, 96x16 pixels)       |  |

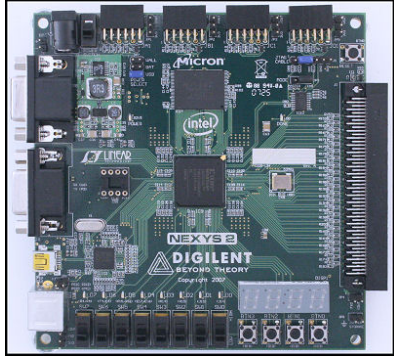


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| 77 | Development kit DSPIC DSC | Microchip | <a href="http://ww1.microchip.com/downloads/en/DeviceDoc/51700B.pdf">http://ww1.microchip.com/downloads/en/DeviceDoc/51700B.pdf</a> | The board is designed with dsPIC DSC with 256 KB of flash memory, a high-fidelity audio codec, microphone input and headphone/speaker outputs, and is powered from the USB connection to the PC. Also on the board are reconfigurable switches, potentiometers, a temperature sensor and a 4 Mb serial EEPROM to store data such as audio samples. |    |
| 78 | PIC KIT Flash Starter Kit | Microchip | <a href="http://ww1.microchip.com/downloads/en/DeviceDoc/40051D.pdf">http://ww1.microchip.com/downloads/en/DeviceDoc/40051D.pdf</a> | The PICkit 1 Flash Starter Kit is a low-cost introductory programmer and starter kit with an easy to use PC host program user interface for programming Microchip's 8/14-pin Flash family of microcontrollers.                                                                                                                                     |    |
| 79 | STK 500, AVR Starter kit  | ATMEL     | <a href="http://www.atmel.com/images/doc1925.pdf">http://www.atmel.com/images/doc1925.pdf</a>                                       | The STK500 is a complete starter kit and development system for the AVR Flash Microcontroller from Atmel Corporation                                                                                                                                                                                                                               |   |
| 80 | JTAG ICE MK-II            | ATMEL     | <a href="http://www.atmel.com/images/doc2562.pdf">http://www.atmel.com/images/doc2562.pdf</a>                                       | JTAGICE MKII is Atmel onchip debugging tool for AVR microcontroller family.                                                                                                                                                                                                                                                                        |  |

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| 81 | Development kit FRDM KL46Z            | Freescale         | <a href="http://cache.freescale.com/files/microcontrollers/doc/user_guide/FRDM-KL46Z_UM.pdf">http://cache.freescale.com/files/microcontrollers/doc/user_guide/FRDM-KL46Z_UM.pdf</a> | MKL46Z256VLLZ4 MCU (48 MHz, 256KB Flash, 32 KB RAM, Low power, 100LQFP package), Dual role USB interface with mini-B USB connector, Open SDA, 4 digit segment LCD module, Capacitive touch slider, Ambient light sensor, MMA8451Q accelerometer, MAG3110 Magnetometer, 2 user LEDs, 2 user push buttons, Flexible power supply options – USB, coin cell battery, external source, Battery-ready, power-measurement access points |    |
| 82 | Evaluation KIT Stellaris EKS-LM3S8962 | TEXAS INSTRUMENTS | <a href="http://users.ece.utexas.edu/~valvano/EE345M/LM3S8962EvalBoard.pdf">http://users.ece.utexas.edu/~valvano/EE345M/LM3S8962EvalBoard.pdf</a>                                   | The Stellaris® LM3S8962 Evaluation Board is a compact and versatile evaluation platform for the Stellaris LM3S8962 ARM® Cortex™-M3-based microcontroller. The evaluation kit design highlights the LM3S8962 microcontroller's integrated CAN and 10/100 Ethernet controllers                                                                                                                                                     |    |
| 83 | M570 Series Oscilloscope              |                   | <a href="http://www.infoelectronica.ro/date_upload/lucrari/m570eng(oscilloscop).pdf">http://www.infoelectronica.ro/date_upload/lucrari/m570eng(oscilloscop).pdf</a>                 | 2 canale, 60MHz                                                                                                                                                                                                                                                                                                                                                                                                                  |   |
| 84 | MSP-FET430 Flash Emulation Tool       | TEXAS INSTRUMENTS | <a href="http://www.ti.com/lit/pdf/slau278">http://www.ti.com/lit/pdf/slau278</a>                                                                                                   | The MSP-FET430U80 is a powerful flash emulation tool that includes the hardware and software required to quickly begin application development on the MSP430 MCU. It includes a ZIF socket target board and a USB debugging interface (MSP-FET) used to program and debug the MSP430 in-system through the JTAG                                                                                                                  |  |

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|----|-----------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |                             |              |                                                                                                                                                             | interface or the pin saving Spy Bi-Wire (2-wire JTAG) protocol.                                                                                                                                                                                                                                                                        |                                                                                      |
| 85 | CEREBOT MC7 Development KIT | DIGILENT     | <a href="https://reference.digilentinc.com/media/cerebot_mc7:cerebot_mc7_rm.pdf">https://reference.digilentinc.com/media/cerebot_mc7:cerebot_mc7_rm.pdf</a> |                                                                                                                                                                                                                                                                                                                                        |   |
| 86 | RT 123 – Ball on Plate      | GUNT Hamburg | RT 123-Ball on Plate.pdf                                                                                                                                    | <ul style="list-style-type: none"> <li>[1] Ball-on-Plate system with two degrees of freedom.</li> <li>[2] Microcontroller board with interfaces.</li> <li>[3] Ball position measurement by touch panel.</li> <li>[4] Swivel drive by stepper motors.</li> <li>[5] Serial PC port.</li> <li>[6] FSH-Shell developer program.</li> </ul> |   |
| 87 | HM303-6 Analog Oscilloscope | HAMEG        | HM303-6.pdf                                                                                                                                                 | <ul style="list-style-type: none"> <li>[1] Two channel,</li> <li>[2] Analogic oscilloscope</li> <li>[3] 35MHz</li> </ul>                                                                                                                                                                                                               |  |

|    |                               |          |              |                                                                                                                                                                                               |                                                                                      |
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| 88 | MTX 3352-C Oscilloscope       | Metrix   | MTX3x52.pdf  | Two channel<br>Digital oscilloscope<br>100 Mhz                                                                                                                                                |   |
| 89 | MTX 3352e-C Oscilloscope      | Metrix   | MTX3x52.pdf  | Two channel<br>Digital oscilloscope<br>60 Mhz                                                                                                                                                 |   |
| 90 | FPGA –<br>Spartan<br>XC3S500E | Digilent | XC3S500E.pdf | 500K System Gates<br>10,476 Eq. Logic Cells<br>73K Distributed RAM Bits<br>360K Block RAM Bits<br>20 Dedicated Multipliers<br>4 DCMs<br>158 Maximum User I/O<br>65 Max Differential I/O Pairs |  |

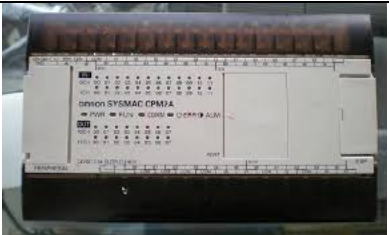
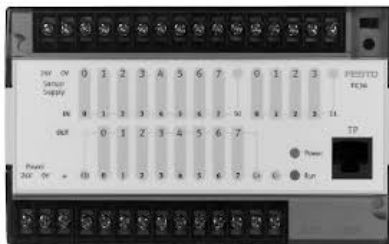
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| 91 | FPGA – Nexys 2                              | Digilent  | nexys2.pdf | <p>500K-gate Xilinx Spartan 3E FPGA</p> <p>USB2-based FPGA configuration and high-speed data transfers (using the free Adept Suite Software)</p> <p>50MHz oscillator plus socket for second oscillator</p> <p>60 FPGA I/O's routed to expansion connectors (one high-speed Hirose FX2 connector and four 6-pin headers)</p> <p>8 LEDs, 4-digit 7-seg display, 4 buttons, 8 slide switches</p> |    |
| 92 | Programmable Sweep Function Generator G5100 | UniSource |            | <p>1Hz to 15MHz frequency output in 4 digits resolution LCD display</p> <p>Waveform : Sine and Square wave (15MHz), Triangle and Ramp wave (100KHz)</p> <p>CW, BURST, SEWWP and TRIG. Mode</p> <p>DC Offset : -7.5V to +7.5V</p>                                                                                                                                                              |    |
| 93 | Programmable Power Supply P6100             | UniSource |            | <p>Triple Output : DC~+30V/3A, DC~-30V/3A Dual / DC 5V/2A Fixed</p> <p>Overload voltage and Ampere Protection (SMPS)</p>                                                                                                                                                                                                                                                                      |   |
| 94 | Triple Power Supply HM 8040-3               | Hameg     |            | <ul style="list-style-type: none"> <li>- 2 x 0...20 V/0.5 A 1 x 5 V/1 A;</li> <li>- 3-Digit switchable Displays (Display Resolution 0.1 V/1 mA);</li> <li>- Pushbutton to activate /deactivate all Outputs;</li> <li>- Adjustable Current Limiting and Electronic Fuse;</li> </ul>                                                                                                            |  |



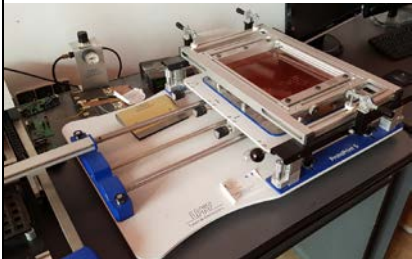
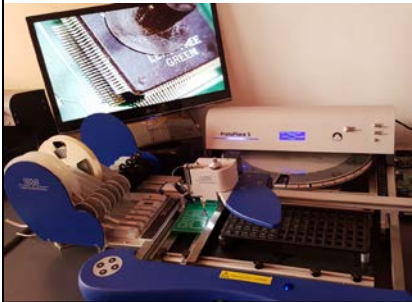
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|    |                                                 |        |  | - Low Residual Ripple and Low Noise;                                                                                                                                                                                                                                                                     |                                                                                       |
| 95 | Programmable Sweep Function Generator HM 8030-6 | Hameg  |  | Frequency Range: 50 mHz to 10 MHz;<br>High signal purity and amplitude stability;<br>Output Voltage: 20 Vpp (10 Vpp to 50Ω);<br>Surge- and short-circuit-proof output;<br>Internal Sweep and External FM-Modulation Input;<br>Internal and external sweep;<br>Highly accurate digital frequency display; |    |
| 96 | Mainframe Modular System HM 8001-2              | Hameg  |  | Support for:<br>- Programmable Sweep Function Generator HM 8030-6;<br>- Triple Power Supply HM 8040-3;                                                                                                                                                                                                   |    |
| 97 | DC Dual Output Power Supply DF1731SL5A          | Protek |  | Dual output: 0 – 30 V<br>Max output: 5A                                                                                                                                                                                                                                                                  |  |
| 98 | Analog Oscilloscope                             | Hameg  |  | - Vertical: 2 Channels, DC - 35MHz, 1mV/div. - 20V/div.                                                                                                                                                                                                                                                  |                                                                                       |



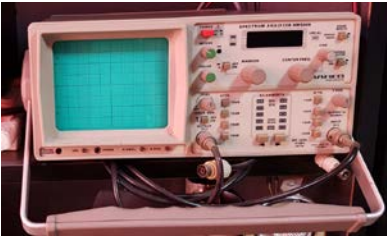
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|     | HM 303-6                                                                     |          |  | <ul style="list-style-type: none"> <li>- Time Base: 0.2s to 10ns/div.; Variable Hold Off; Alternate Triggering</li> <li>- Triggering: DC-100MHz; Auto Peak to Peak; Active TV Sync. Separator</li> <li>- Additional Features: Component Tester, 1kHz/1MHz Calibrator;</li> </ul>                                                                                                                                                                                                                                                                                                                                                    |   |
| 99  | Basys 2<br>Spartan-3E<br>FPGA Trainer<br>Board                               | Digilent |  | <ul style="list-style-type: none"> <li>- Xilinx Spartan 3E FPGA, 100K gates</li> <li>- FPGA features 18-bit multipliers</li> <li>- 72 Kbits of fast dual-port block RAM</li> <li>- 500 MHz+ operation</li> <li>- User-settable oscillator frequency (25, 50, and 100 MHz), plus socket for a second oscillator</li> <li>- Three on-board voltage regulators (1.2V, 2.5V, and 3.3V) that allow use of 3.5V-5.5V external supplies</li> <li>- 8 LEDs, 4 pushbuttons, 8 slide switches</li> <li>- 4-digit seven-segment display</li> <li>- PS/2 port</li> <li>- 8-bit VGA port</li> <li>- Four 6-pin headers for user I/Os;</li> </ul> |   |
| 100 | Programmable Logic<br>Controller<br>SYSMAC<br>C200H<br>+<br>ID212<br>modules | Omron    |  | <ul style="list-style-type: none"> <li>- PLC- Omron CPU 01</li> <li>- Six DC Input 8 pts 24 VDC;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |

|     |                                                  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
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| 101 | Programmable Logic Controller<br>SYSMAC<br>CPM2A | Omron |  | <ul style="list-style-type: none"> <li>- 12 inputs</li> <li>- 8 outputs;</li> <li>- RS-232C interface</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 102 | Programmable Logic Controller<br>FESTO FC440     | FESTO |  | <ul style="list-style-type: none"> <li>- 16 digital inputs;</li> <li>- 8 digital outputs;</li> <li>- ETHERNET base 10T;</li> <li>- 2 serial interfaces;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |
| 103 | Programmable Logic Controller<br>FESTO FC34      | FESTO |  | <p>The FECR is a compact and powerful PLC and offers all functions required for automation tasks involving a few I/Os in industrial design:</p> <ul style="list-style-type: none"> <li>• 24 V DC sensor power supply</li> <li>• Fast counter up to 4 kHz</li> <li>• Multitasking (64 programs)</li> <li>• 256 timers, 128 buffered</li> <li>• 256 16-bit counters;</li> <li>• 10 000 flag words, 256 buffered</li> <li>• Digital inputs PNP/NPN: 12</li> <li>• Signal voltage: 24 V DC</li> <li>• Power consumption: 7 mA</li> <li>• Status display: LED per stage</li> <li>• Operating voltage: 24 V DC</li> <li>• Digital outputs (load current):<br/>2 relay/NO (maximum 2 A)<br/>6 transistors (maximum 0.5 A)</li> <li>• display: LED per stage</li> </ul> |  |

|     |                                                 |            |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |
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|     |                                                 |            |                                                  | <ul style="list-style-type: none"> <li>Ethernet interface: 1</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |
| 104 | Programmable Logic Controller<br>SIMATIC S7-300 | Siemens    |                                                  | <ul style="list-style-type: none"> <li>SIMATIC S7-300;</li> <li>4 inputs modules;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 105 | Circuit Board Plotter<br>"ProtoMat S103"        | LPKF Laser | <a href="#">link 1</a><br><a href="#">Link 2</a> | <p>Three axes Circuit Board Plotter, with multiple functions:</p> <ul style="list-style-type: none"> <li>- producing PCB prototypes;</li> <li>- producing Stencil;</li> <li>- Populating the circuit board with soldering paste.</li> </ul> <p>Technical Data:</p> <ul style="list-style-type: none"> <li>- Max. material size and layout area (X x Y x Z): 229mmx305mmx35/22mm (9" x 12" x 1.4" / 0.9");</li> <li>- Resolution (X/Y): 0,5µm, (0,02mil);</li> <li>- Milling spindle: 100,000 rpm, software controlled;</li> <li>- Automatic tool change 15 positions;</li> <li>- Drilling speed: 120 strokes/min;</li> <li>- Travel speed (x/y): Max. 150 mm/ s (6"/s).</li> </ul> |  |

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| 106 | LPKF<br>ProtoPrint S<br>RP | LPKF Laser | <a href="#">Link 1</a><br><a href="#">Link 2</a> | <p>The LPKF ProtoPrint S RP is a precision manual stencil printer. This tabletop model can be used for prototypes and for small batches of fine pitch SMT boards. On-contact fine-pitch printing, precise vertical separation between stencil and PCB, and slow snap-off provides superb printing results. This unique solution allows printing of 0.3 mm (12 mil) pitch (ultra-fine-pitch area). Product characteristics:</p> <ul style="list-style-type: none"> <li>- On-contact fine-pitch printing;</li> <li>- Parallel stencil separation;</li> <li>- Printing populated; double-sided boards;</li> <li>- Compatible with various stencil frames;</li> <li>- Test print screen included;</li> <li>- Screen printing;</li> <li>- Vacuum table for printing on flex and rigid PCBs;</li> </ul>   |   |
| 107 | LPKF LPKF<br>ProtoPlace S  | LPKF Laser | <a href="#">Link 1</a><br><a href="#">Link 2</a> | <p>The LPKF ProtoPlace S is a semi-automatic pick &amp; place system for the professional assembly of complex SMD printed circuit board prototypes and small-batch projects. Mechanism, micro table and automated placement enable placing of finepitch components while the multifunctional dispenser increases functionality</p> <ul style="list-style-type: none"> <li>- Maximum circuit board size: 297 × 420 mm (11.8" × 16.5")</li> <li>- Operating air pressure (dispensing): 0,1 – 4 bar (1.4 – 58 psi)</li> <li>- Pulse / Pause duration: 0,1 - 9 s/0,1 - 2 s</li> <li>- Number of dosing points: up to 300/min</li> <li>- Dosing quantity: min. 0,2 mm<sup>3</sup></li> <li>- Vacuum: 0 – 0,8 bar (0 – 0,8 × 105 Pa)</li> <li>- Dimensions of basic device (W x H x D): 1000 ×</li> </ul> |  |

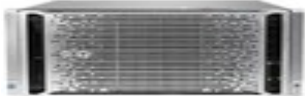
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|     |                     |            |                                                  | <ul style="list-style-type: none"> <li>500 × 900 mm (with feeders and turntable)</li> <li>Movable micro CCD camera PAL</li> <li>Colour LCD monitor 23" AV input</li> <li>Motorized Turntable with: 75 antistatic component bins</li> <li>Stick feeder SO8 - SO28, SO8L - SO28L</li> <li>Tape feeder 8 mm</li> <li>Tape feeder 12 mm</li> <li>Tape feeder 16 mm</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |
| 108 | LPKF ProtoPlace BGA | LPKF Laser | <a href="#">Link 1</a><br><a href="#">Link 2</a> | <p>LPKF ProtoPlace BGA placer is designed for the accurate placing of different types of BGA, CSP and flip chip components, as well as fine-pitch and ultra-fine-pitch components.</p> <p>The placing of components with pins hidden from the top and sides requires reliable and precise alignment to avoid expensive and difficult rework. The system is suitable for R&amp;D labs as well as production facilities focusing on custom designs and small batches.</p> <ul style="list-style-type: none"> <li>Semi-automatic placement of BGA, <math>\mu</math>BGA, PLCC and QFP components from 5 mm x 5 mm (0.2" x 0.2") up to 40 mm x 40 mm (1.6" x 1.6")</li> <li>Max. PCB size: 229 mm x 305 mm (9" x 12")</li> <li>Min. size of components: 5 mm x 5 mm (0.2" x 0.2")</li> <li>Pitch: 0,3 mm (12 mil)</li> <li>Placement accuracy: <math>\pm 0,05</math> mm (0.00197")</li> <li>600 mm x 520 mm x 435 mm (23.6" x 20.5" x 17.1")</li> <li>Colour LCD monitor 23" AV input</li> </ul> |  |

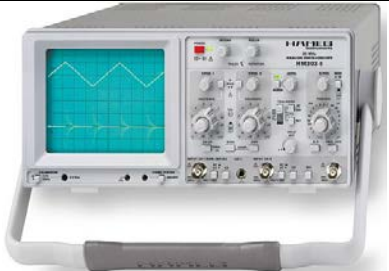
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| 109 | LPKF ProtoFlow S  | LPKF Laser | <a href="#">Link 1</a><br><a href="#">Link 2</a> | <p>The LPKF ProtoFlow S is a full convection oven for lead-free reflow soldering, ideal for PCB prototyping, technology research and pre-production runs. The compact and versatile oven with lead free capability has significant advantages over previous models and allows temperatures up to 320 °C. Even heat distribution, easy programming and many pre-defined temperature profiles guarantee excellent soldering results.</p> <ul style="list-style-type: none"> <li>- Maximum circuit board size: 230 x 305 mm (9" x 12")</li> <li>- Max. preheating temperature, time: 220 °C, 999 s</li> <li>- Max. reflow temperature, time: 220 °C, 64 h</li> <li>- Temperature stabilization time: &lt; 5 min</li> <li>- PCB cooling: Double, speed adjustable bottom-mounted fan</li> <li>- Dimensions ( W x H x D): 647 x 315 x 450 mm</li> </ul> |    |
| 110 | SPECTRUM ANALYZER | HAMEG      | <a href="#">Link 1</a>                           | <p>The HM5005-3/HM5006-3 Spectrum Analyzer is the ideal instrument for analyzing any kind of signal within the frequency range of 0.15 to 500MHz. Both models include a Scanwidth Selector that can adjust the frequency display width from 50kHz to 50MHz per division,</p> <ul style="list-style-type: none"> <li>- Frequency Range: 0.15 MHz to 500MHz</li> <li>- Frequency Resolution displayed: 100kHz (4 Digit) Center Frequency Range 0 to 550 MHz</li> <li>- Accuracy: ±100kHz Stability (Drift): &lt;150kHz / h</li> <li>- Span: Zero span; 100kHz/Div to 100MHz/Div in steps of 1-2-5</li> <li>- Accuracy: ±10%</li> <li>- Marker Resolution (Frequency): 4digits</li> </ul>                                                                                                                                                             |  |



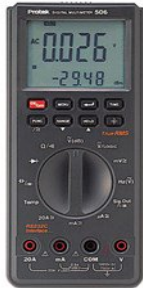
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|     |                                        |           |                        | <ul style="list-style-type: none"> <li>- Marker Accuracy: <math>\pm(0.1\% \text{ span} + 100\text{kHz})</math></li> <li>- Resolution Bandwidth, RBW(-3dB):20kHz,250kHz</li> <li>- Video Bandwidth, VBW: 4kHz, 250kHz</li> <li>- SWT (fixed): 23ms</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                       |
| 111 | Analog Oscilloscope HM303-6            | HAMEG     | <a href="#">Link 1</a> | <p>HAMEG instruments fulfil the regulations of the EMC directive. The conformity test made by HAMEG is based on the actual generic- and product standards.</p> <p>In cases where different limit values are applicable, HAMEG applies the severer standard. For emission the limits for residential, commercial and light industry are applied. Regarding the immunity (susceptibility) the limits for industrial environment have been used.</p> <ul style="list-style-type: none"> <li>- 2 Channels with deflection coefficients of 1 mV – 20 V/cm, Low Noise Amplifiers</li> <li>- Time Base 0.2 s – 100 ns/cm, with X Magnification to 10 ns/cm</li> <li>- Triggering from 0 to 50 MHz from 5 mm signal level (100 MHz &gt; 8 mm)</li> <li>- Analog mode provides unexcelled signal presentation at high resolution and up to 500,000 signal displays/sec.</li> </ul> |    |
| 112 | Digital Storage Oscilloscopes TDS 1002 | Tektronix | <a href="#">Link 1</a> | <p>The TDS1000 Series digital storage oscilloscopes deliver an unbeatable combination of superior performance, unmatched ease-of-use, and affordability in an ultra lightweight, portable package. The TDS1000 Series oscilloscopes provide accurate real-time acquisition up to their full bandwidth, advanced triggers to isolate signals of interest, and 11 standard automatic measurements on all models.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |

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|     |                        |        |                        | <p>Their Fast Fourier Transform (FFT) math function allows the user to analyze, characterize and troubleshoot circuits by viewing frequency and signal strength (standard on all models).</p> <ul style="list-style-type: none"> <li>- 60 MHz, Bandwidths</li> <li>- 2 Channels</li> <li>- Autoset Menu with Waveform Selection</li> <li>- Sample Rate on each channel: 1GS/s</li> <li>- Record Length 2.5 K points on all models</li> <li>- Vertical Resolution 8-bits</li> <li>- Vertical Sensitivity 2 mV to 5 V/div on all models with calibrated fine adjustment</li> <li>- Max Input Voltage 300 VRMS CAT II; derated at 20 dB/decade above 100 kHz to 13 Vp-p AC at 3 MHz and above</li> </ul>                                                                                      |                                                                                      |
| 113 | WR3M – High-End Rework | Weller | <a href="#">Link 1</a> | <p>Weller has taken the rework station to the highest level; with the new WR3M. The versatile repair station is specifically tailored to the needs and requirements of professional repairs to latest-technology electronic sub-assemblies in industrial production engineering and in the repair and laboratory fields. 3 independent tool channels with automatic tool detection guarantee the simultaneous operation of 3 soldering tools. Precise temperature control performance at the soldering tip is guaranteed by the digital control electrotechnology together with superior-quality sensor and heat-transfer technology. High-speed measured-value acquisition provides for maximum temperature precision and optimum dynamic temperature performance in load situations.</p> |  |

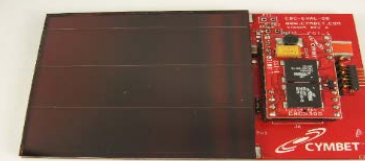
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| 114 | HP ProLiant Server           | HP             | <a href="http://www8.hp.com/h20195/v2/getpdf.aspx/c04123379.pdf?ver=16">http://www8.hp.com/h20195/v2/getpdf.aspx/c04123379.pdf?ver=16</a>                                                                                                                                                                                                               | HP Blade System c3000 Enclosure<br>3 x HP ProLiant BL BL460c G6 Xeon E5506<br>1x HP ProLiant BL BL680c G5 Xeon E7420<br>Retea SAN<br>HP iLO Advanced<br>Vmware vSpheare 5 |    |
| 115 | Tester METREL MI 350         | METREL         | <a href="http://www.metrel.si/fileadmin/BAZA od Damijan Dolinar/Metrel/Navodila instrumentov/Instruments/MI_2016_MultiLAN_350/Ang/MI_2016_MultiLAN_ANG_Ver_2.2_20_750_745.pdf">http://www.metrel.si/fileadmin/BAZA od Damijan Dolinar/Metrel/Navodila instrumentov/Instruments/MI_2016_MultiLAN_350/Ang/MI_2016_MultiLAN_ANG_Ver_2.2_20_750_745.pdf</a> | Tester CAT5, CAT6, UTP, STP, ScTP, FTP, RS232, EN50173, TIA/EIA 658B, ISO/IEC 11801                                                                                       |    |
| 116 | Swich Catalyst 2960          | CISCO          | <a href="http://www.cisco.com/c/en/us/products/collateral/switches/catalyst-2960-s-series-switches/data_sheet_c78-726680.pdf">http://www.cisco.com/c/en/us/products/collateral/switches/catalyst-2960-s-series-switches/data_sheet_c78-726680.pdf</a>                                                                                                   | 24 x 100Mbps, 2x1Gbps                                                                                                                                                     |    |
| 117 | Router CISCO 2811            | CISCO          | <a href="http://www.cisco.com/c/en/us/products/collateral/routers/2800-series-integrated-services-routers-isr/product_data_sheet0900aecd8016fa68.pdf">http://www.cisco.com/c/en/us/products/collateral/routers/2800-series-integrated-services-routers-isr/product_data_sheet0900aecd8016fa68.pdf</a>                                                   | 2xLAN, 2xSerial                                                                                                                                                           |    |
| 118 | Allied Telesyn AR 725        | Allied Telesyn | <a href="https://www.alliedtelesyn.com/sites/default/files/ar700hr_revq.pdf">https://www.alliedtelesyn.com/sites/default/files/ar700hr_revq.pdf</a>                                                                                                                                                                                                     | CHAP, PAP, RADIUS, TACACS, OSPF, RIP-2, RS-232                                                                                                                            |  |
| 119 | Server HP Proliant DLG380 G5 | HP             | <a href="http://h18000.www1.hp.com/products/quickspecs/archives_North_America/12477_na_v37/12477_na.PDF">http://h18000.www1.hp.com/products/quickspecs/archives_North_America/12477_na_v37/12477_na.PDF</a>                                                                                                                                             | 2xPower Source, RAID, SAS RAID Array                                                                                                                                      |  |

|     |                                 |         |                                                                                                                                                                 |                                |                                                                                      |
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| 120 | Logitel MP-124 VoIP Gateway     | Logitel | <a href="http://www.logitel.gr/wp-content/uploads/2011/04/MP-11x_MP-124_IM.pdf">http://www.logitel.gr/wp-content/uploads/2011/04/MP-11x_MP-124_IM.pdf</a>       | 1-24 lines, port 10/100Base-TX |   |
| 121 | Osciloscop HM 1008-2            | Hameg   | <a href="http://www.testequipmentdepot.com/hameg/pdf/hm1008-2_manu.pdf">http://www.testequipmentdepot.com/hameg/pdf/hm1008-2_manu.pdf</a>                       | 1 GSa – 1MB, 100 MHz           |   |
| 122 | HM303-4 Analog Oscilloscope     | HAMEG   | <a href="http://www.electrobreizh.com/upload/files/HAMEG%20HM3034_english.pdf">http://www.electrobreizh.com/upload/files/HAMEG%20HM3034_english.pdf</a>         | 2 canale, 35MHz, analogic      |   |
| 123 | MTX 3352-C Digital Oscilloscope | METRIX  | <a href="https://www.sge.com.tr/dosyalar/site_resim/urunler/urundosya/5902269.pdf">https://www.sge.com.tr/dosyalar/site_resim/urunler/urundosya/5902269.pdf</a> | 2 canale, 100MHz, digital      |  |

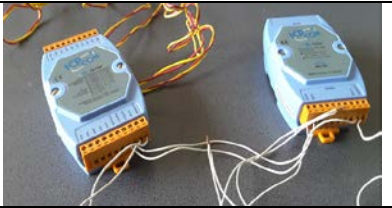
|     |                             |       |                                                                                                                                                                     |                             |                                                                                      |
|-----|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------|
| 124 | NB 8000R Multimeter         | FLUKE | <a href="http://assets.fluke.com/manuals/15x7_umeng0000.pdf">http://assets.fluke.com/manuals/15x7_umeng0000.pdf</a>                                                 | Multimetru digital          |   |
| 125 | HM 8040 Power Supply        | HAMEG | <a href="http://docs-europe.electrocomponents.com/webdocs/04ef/0900766b804efe01.pdf">http://docs-europe.electrocomponents.com/webdocs/04ef/0900766b804efe01.pdf</a> | Sursa tensiune duala 20V-2A |   |
| 126 | HM8030-5 Function Generator | HAMEG | <a href="http://www.ens-lyon.fr/DSM/AGREG-Physique/oral/Notices/N027-009.pdf">http://www.ens-lyon.fr/DSM/AGREG-Physique/oral/Notices/N027-009.pdf</a>               | Generator semnal 0-10MHz    |   |
| 127 | HM303-4 Analog Oscilloscope | HAMEG | <a href="http://www.electrobreizh.com/upload/files/HAMEG%20HM303_4_english.pdf">http://www.electrobreizh.com/upload/files/HAMEG%20HM303_4_english.pdf</a>           | 2 canale, 35MHz, analogic   |  |

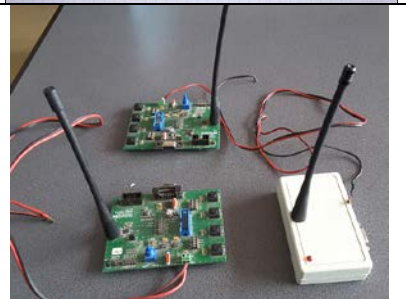
|     |                                     |         |                                                                                                                                                                                                         |                             |                                                                                       |
|-----|-------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|
| 128 | HM-5014-2<br>Spectral<br>Analizor   | HAMEG   | <a href="http://www.appliedin.com/www/assets/products/HM_5014-2/HM5014-2_DataSheet.pdf">http://www.appliedin.com/www/assets/products/HM_5014-2/HM5014-2_DataSheet.pdf</a>                               | 1 canal, 100KHz-2G          |    |
| 129 | PROTEK 506<br>Digital<br>Multimeter | PROTEK  | <a href="http://www.tehranelectronics.com/PDF/multimeter/handheld/Protek%20506.PDF">http://www.tehranelectronics.com/PDF/multimeter/handheld/Protek%20506.PDF</a>                                       | Multimetru digital          |    |
| 130 | LAB/ec 2305<br>Power<br>Supply      | TWINTeX | <a href="http://www.tme.eu/html/EN/near-3-channel-laboratory-power-supplies/ramka_14015_EN_pelny.html">http://www.tme.eu/html/EN/near-3-channel-laboratory-power-supplies/ramka_14015_EN_pelny.html</a> | Sursa tensiune duala 30V-5A |   |
| 131 | HM 8040<br>Power<br>Supply          | HAMEG   | <a href="http://docs-europe.electrocomponents.com/webdocs/04ef/0900766b804efe01.pdf">http://docs-europe.electrocomponents.com/webdocs/04ef/0900766b804efe01.pdf</a>                                     | Sursa tensiune duala 20V-2A |  |

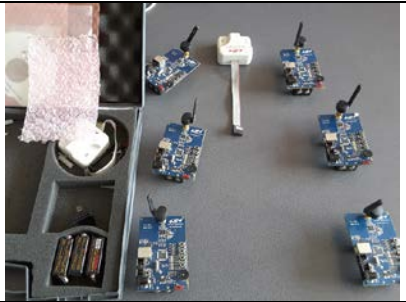
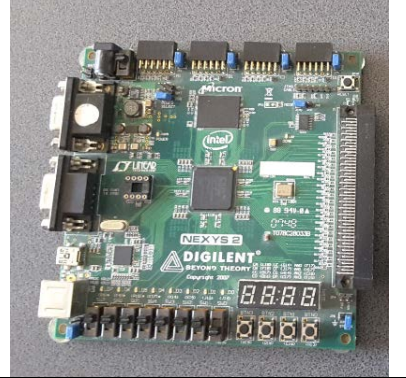


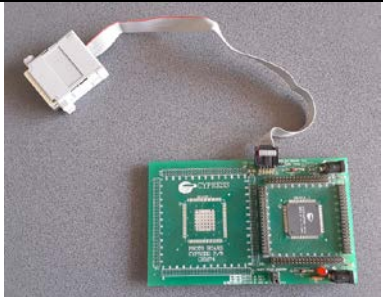
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|-----|-------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 132 | HM8030-5<br>Function<br>Generator                                 | HAMEG                | <a href="http://www.ens-lyon.fr/DSM/AGREG-Physique/oral/Notices/N027-009.pdf">http://www.ens-lyon.fr/DSM/AGREG-Physique/oral/Notices/N027-009.pdf</a> | Generator semnal 0-10MHz                                                                          |   |
| 133 | Kit cymbet<br>CBC-SEH-01                                          | Cymbet               | <a href="#">Datasheet</a>                                                                                                                             | Photovoltaic cell and controller for batteries charger                                            |   |
| 134 | GPS/GPRS<br>Telite GM-868 GPS                                     | Telite               | <a href="#">Datasheet</a>                                                                                                                             | System GPRS/GPS Telite. Antenna GSM/GPRS, antenna GPS, slot SIM card, development language Python |   |
| 135 | National Instruments,<br>kit NI PCI 6221,<br>extension board N114 | National Instruments | <a href="#">Datasheet</a>                                                                                                                             | PCI acquisition board, 250kS/s, 80 analog inputs                                                  |  |

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|-----|---------------------------------------------------------|----------------|----------------------|----------------------------------------------|--------------------------------------------------------------------------------------|
| 136 | Binocular display Kopin KD02023                         | Kopin          | <a href="#">Link</a> | Binocular display, supply 12V, SVideo format |   |
| 137 | Development Kit ARM + Ethernet Wiznet MCU W7100A EVB    | Wiznet         | <a href="#">Link</a> | MCU ARM, Ethernet interface                  |   |
| 138 | Stellaris development kit, OLED Luminary Micro, LM3S811 | Luminary Micro | <a href="#">Link</a> | OLED display, ARM                            |   |
| 139 | Mbed NXP LPC1768                                        | ARMmbed & NXP  | <a href="#">Link</a> | Ethernet, USB, 32-bit ARM® Cortex™-M3        |  |

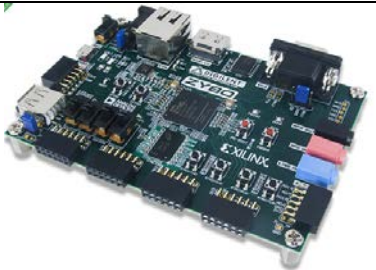
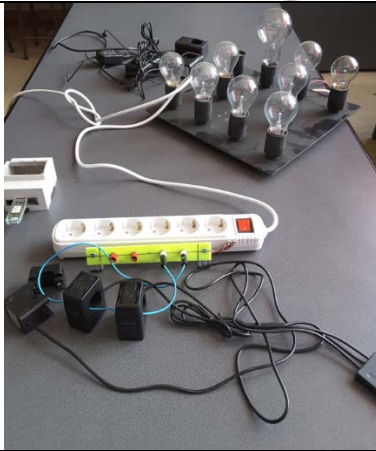
|     |                                                        |                            |                           |                                              |                                                                                      |
|-----|--------------------------------------------------------|----------------------------|---------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|
| 140 | Industrial camera and embedded PC system, eBOX 2300 SX | Microcomputer Systems Inc. | <a href="#">Datasheet</a> | Camera CCD 1028x800, embedded PC Vortex86    |   |
| 141 | Memory programmer RM 875X World Product Inc.           | RomMax                     |                           | ROM (OTP), EPROM, serial (RS232) interface   |   |
| 142 | BeeProg Elnec programmer                               | Elnec                      | <a href="#">Link</a>      | ROM, EPROM, EEPROM, Flash, USB interface     |   |
| 143 | Temperature acquisition system                         | National Instruments       | <a href="#">Datasheet</a> | Thermocouple, I7018, convertor 485-232 I7520 |  |

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|-----|-------------------------------------------|------------------|---------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 144 | EZ80F91 board                             | Zilog            | <a href="#">Datasheet</a> | MCU eZ80, Ethernet interface, RS232                           |   |
| 145 | Kit EasyAVR                               | Mikroelektronika | <a href="#">Link</a>      | AVR MCU, alpha LCD, graphic LCD, RS232                        |   |
| 146 | STK500, STK501                            | AVR              | <a href="#">Datasheet</a> | MCU AVRATMEGA, AT90CAN128, JTAGICE programmer MK2, RS232, CAN |   |
| 147 | Radio communication system 915MHz, nRF9E5 | Nordic VLSI      | <a href="#">Link</a>      | nRF9E5 SoC, 915 MHz                                           |  |

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|-----|-----------------------------------------|----------------------|---------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------|
| 148 | Radio communication ZigBee 2.4GHz       | Silicon Laboratories | <a href="#">Datasheet</a> | MCU C8051, zigbee (chipcon) transceiver, USB             |   |
| 149 | SilabsC8051F120 DK, Ethernet extension  | Silicon Laboratories | <a href="#">Datasheet</a> | C8051F120, Ethernet extension, RS232                     |   |
| 150 | Reconfigurable system Altium LiveDesign | Altium               | <a href="#">Datasheet</a> | FPGA Spartan 3 (XC3S400), VGA, RS232, 6 segments display |   |
| 151 | Reconfigurable system Nexys2            | Digilent             | <a href="#">Datasheet</a> | FPGA Spartan 3E (XC3S500E), VGA, RS232                   |  |

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|-----|--------------------------------------|----------|---------------------------|-----------------------------------------|--------------------------------------------------------------------------------------|
| 152 | Reconfigurable system<br>DigiLab XC2 | Digilent | <a href="#">Datasheet</a> | CPLD Cool Runner 2, Xilinx              |   |
| 153 | Reconfigurable system<br>Cypress     | Cypress  | <a href="#">Datasheet</a> | CPLD Cy37256P160 (Ultra360000)          |   |
| 154 | Reconfigurable system<br>V2PRO       | Digilent | <a href="#">Datasheet</a> | Virtex2 Pro, VGA, Ethernet, RS232, DDR2 |  |



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|-----|------------------------------------------|-----------------|---------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 155 | System on Chip (SoC) Zybo                | Digilent        | <a href="#">Datasheet</a> | SoC (ARM+FPGA) Zynq7000, VGA, Ethernet, USB(2.0), DDR3, SD                   |   |
| 156 | Measure current stand (three/mono phase) | Pressac Sensing | <a href="#">Datasheet</a> | Self-powered, wireless 928MHz, EnOcean transceiver&USB gateway, Raspberry PI |   |
| 157 | RaspberryPI                              | Element 14      | <a href="#">Link</a>      | ARM processor, 512MB RAM, HDMI, USB, Ethernet                                |  |