

Measuring and testing devices



Multifunction device ELAB-080 (80MHz, 8-bit)

ELAB-080 combines 5 key measurement and stimulate tools to form a highly integrated electronics lab instrument accommodating most measurement and testing criteria for today's state-of-the-art electronics. ELAB-080 contains the following units: digital storage oscilloscope (80MHz sampling), logic analyzer unit (16-channels), arbitrary waveform generator (analog and digital), 2 clock generator, 2 programmable power supply.

The ELAB-080 is looking for maximum value in PC-hosted electronics lab at very affordable price. Therefore this device is very for companies concerned in electronics development, testing and measurement, schools, mobile applications and last but not least for electronic hobbyists.

Supplied accessories: 2 oscilloscope probes 60MHz (MPJA-X60), complete wiring harnesses for logic analyzer and digital I/O device units, USB cable, CD with software and documentation, printed user guide.



Price
481,- €

Two channel digital oscilloscope S2X100 (100MHz, 8-bit)

Device S2X100 is a compact digital oscilloscope dedicated for USB connection to host computer. This device contents two analog inputs with up to 100MS/sec. sampling, 64kS memory (for each channel) and 8 bit resolution. Combining big performance in a compact package (width 66x depth 120x high 15mm) and weight of 77g the S2X100 is ideal for those users that care about quality and performance. The S2X100 is a performer, boasting 50MHz bandwidth with a sample rate of 100 MS/s per channel.

Supplied accessories: 2x proprietary oscilloscope probes, USB cable, CD with software and documentation, printed user guide.



Price
253,- €

16 channel logic analyzer L16X100K (100MHz, 8-bit, 128K sample memory)

Compact 16 channel logic analyzer for USB port with sample rate 100MS/sec. and sample memory 128kS. Except of 16 digital input channels the L16X100K contains two adjustable digital I/O (GPIO1 and GPIO 2). Logic analyzer offers triggering with state trigger on all 16 channels. Device is powered through USB interface and therefore no external power supply adapter is not needed. Software for L16X100 is designed for operating systems Windows 2000, XP or Vista. Staying true to the X100 series, the L16X100 offers superior performance in the palm of your hand.

Supplied accessories: Two 8 Channel Wiring Harnesses, CD with software and documentation, USB Cable, Printed user guide.



Price
253,- €

16 channel logic analyzer L16X100M (100MHz, 8-bit, 1024K sample memory)

Compact 16 channel logic analyzer for USB port with sample rate 100MS/sec. and sample memory 128kS. Except of 16 digital input channels the L16X100K contains two adjustable digital I/O (GPIO1 and GPIO 2). Logic analyzer offers triggering with state trigger on all 16 channels. Device is powered through USB interface and therefore no external power supply adapter is not needed. Software for L16X100 is designed for operating systems Windows 2000, XP or Vista. Staying true to the X100 series, the L16X100 offers superior performance in the palm of your hand.

Supplied accessories: Two 8 Channel Wiring Harnesses, CD with software and documentation, USB Cable, Printed user guide.



Price
293,- €

Measuring and testing devices



Digital oscilloscope and logic analyzer CS328A (100MHz, 10, 12, 14 bits)

Cleverscope is combined instrument designed for connection to host PC via USB or Ethernet interface (Ethernet connection is optional extension) which offers two channel digital oscilloscope with 10-bit resolution (optionally 12-bit or 14-bits can be installed), eight channel logic analyzer, spectral analyzer and waveform generator (waveform generator is an optional extension - CS700A module). CS328A contains (as standard type) 4MS (mega samples) memory for storing measured samples, which means 2MS for each channel and this memory can be upgraded up to 8MS (4MS for each channel).

Supplied accessories: 2 oscilloscope probes 250MHz (type CS1001), 2 digital input pods including probes (CS1004 and CS1005), power supply adapter, USB cable, CD with software, documentation and other resources, printed user guide.



Price
960,- €

Digital oscilloscope CS320A (100MHz, 10, 12, 14 bits)

Cleverscope CS320A is a digital oscilloscope designed for connection to host PC through USB or Ethernet interface (Ethernet connection is optional extension). This oscilloscope offers two analog input channels with 100MS/sec. sampling rate, resolution 10,12 or 14 bits (10-bit version is supplied by default, 12-bit and 14-bit version is a optional extension). In addition to displaying of signals measured at analog inputs the CS320A also offers spectral analysis and advanced mathematical processing of measured signals. CS320A contains (as standard type) 4MS (mega samples) memory for storing measured samples, which means 2MS for each channel and this memory can be upgraded up to 8MS (4MS for each channel).

Supplied accessories: 2 oscilloscope probes 250MHz (type CS1001), power supply adapter, USB cable, CD with software, documentation and other resources, printed user guide.



Price
801,- €

Extension plug-in modules for CS328A and CS320A devices (factory upgrades - available on initial order of the CS328A or CS320A acquisition units only)

CS800 - Memory module 8M samples

The CS800 provides double the memory (8M samples) of the standard units. As the minimum frames is 2 you can have up to 4M samples in one capture.

Module CS800 is only available on initial order of the CS328A or CS320A acquisition units.

Price
199,- €

CS810 - External sampler clock interface

The CS810 is the factory addition of the facility to use an external sampler clock signal instead of the standard internal 100 MHz source. A 50 Ohm SMA input fitted to the rear panel accepts sine or square wave clocks up to 3V p-p in amplitude with a frequency range of 1-100MHz. The acquisition unit automatically determines the input frequency. The internal/external clock selector switch is software controllable from the application, and contributes less than 0.2pSec of additive jitter. The external clock input enables you to use Cleverscope for synchronous sampling applications.

Module CS810 is only available on initial order of the CS328A or CS320A acquisition units

Price
187,- €

CS712U - Sampler module with 12-bits resolution (2channels, 100MHz)

This plug in module can either be purchased instead of the 10 bit sampler on initial order. Module CS712U provides extension of sampling resolution to **12 bits** to both analog channels of CS320A or CS328A devices. The factory upgrade option price is lower than extension module CS712, because the 10-bit sampler is not supplied in this case. If you want to have both samplers then you will need to purchase the extra sampler as a module - although we can not think of a good reason for needing both.

CS712U module is only available on initial order of the CS328A or CS320A acquisition units

Price
152,- €

CS714U - Sampler module with 14-bits resolution (2channels, 100MHz)

This plug in module can either be purchased instead of the 10 bit sampler on initial order. Module CS714U provides extension of sampling resolution to **14 bits** to both analog channels of CS320A or CS328A devices. The factory upgrade option price is lower than extension module CS712, because the 10-bit sampler is not supplied in this case. If you want to have both samplers then you will need to purchase the extra sampler as a module - although we can not think of a good reason for needing both.

CS714U module is only available on initial order of the CS328A or CS320A acquisition units

Price
265,- €

CS741U - Ethernet interface module

CS741U module provides possibility to connect the CS320A or CS328A devices via Ethernet interface. This module replaces the USB interface module.

CS741U module is only available on initial order of the CS328A or CS320A acquisition units

Price
50,- €

Extension plug-in modules for CS328A and CS320A devices

CS700A - Waveform generator module

The CS700A Signal Generator is a plug-in module for the CS328 and CS320 Oscilloscopes. The CS700A Signal generator generates sine, square and triangle output waveforms. The amplitude may be varied between 0 and 5V pk-pk, in 10mV steps. The offset may be varied from -4 to +4V in 10 mV steps. The generator can be FSK and PSK modulated, and Frequency swept. The sweep may be synchronized with the Spectrum Analyzer to carry out transfer response measurement. Two of the digital inputs may be allocated to switch between either of the two frequencies or two phases. If you order the CS700A at the same time as a CS328A or CS320A, the module will be factory fitted. Otherwise you can easily fit the module yourself.



Price
247,- €

CS710 - Sampler module with 10-bits resolution (2channels, 100MHz)

Module CS712U is a sampler plug-in module that provides sampling resolution **10 bits** to both analog channels of CS320A or CS328A devices. Sample rate is 100MS/sec. This module is standard supplied sampler module for CS320A and CS328A devices.



Price
149,- €

CS712 - Sampler module with 12-bits resolution (2channels, 100MHz)

Module CS712U provides extension of sampling resolution to **12 bits** to both analog channels of CS320A or CS328A devices at 100MS/sec sample rate. When this module is ordered at initial order of CS328A or CS320A device, the price is lower (see factory modules - CS712U).



Price
298,- €

CS714 - Sampler module with 14-bits resolution (2channels, 100MHz)

Module CS712U provides extension of sampling resolution to **14 bits** to both analog channels of CS320A or CS328A devices at 100MS/sec sample rate. When this module is ordered at initial order of CS328A or CS320A device, the price is lower (see factory modules - CS714U).



Price
396,- €

CS741 - Ethernet interface module

CS741U module provides possibility to connect the CS320A or CS328A devices via Ethernet interface. This module replaces the USB interface module.



Price
122,- €

Accessories for measuring and testing devices

Oscilloscope probes

MPJA-X60 - Oscilloscope probe 60MHz (attenuation ratio x1 or x10)

MPJA-X60 is a passive high impedance oscilloscope probe designed and calibrated for use on instruments having an input impedance of 1M Ohm shunted by 20pF. However it may be compensated for use with instruments have an input capacitance of 10-50pF. The probe incorporates a two position slide switch in the head which selects attenuation of x1, x10.

Technické parametry sondy:

- Attenuation ratio: 1:1 , 1:10
- Frequency range: 60MHz
- Input resistance: 1M Ohm / 10M Ohm (1:1, 1:10)
- Input capacitance: 15pF
- Compensation range: 10pF-50pF
- Attenuation ranges: 1:1 , 1:10
- Cable length: 1,2m



Price
24,- €

CS1001 - Oscilloscope probe 250MHz (attenuation ratio x1 or x10)

The CS1001 Analog probe is a passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1 MOhm shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 10 to 35pF. The probe incorporates a three position slide switch in the head which selects attenuation of x1, x10 or ground reference position

Technical specifications:

- Attenuation ratio: 1:1 , 1:10
- Frequency range: DC to 250MHz
- Input resistance: 1M Ohm (x1) / 10M Ohm (x10)
- Input capacitance: 17pF
- Compensation range: 10pF-30pF
- Cable length: 1,2m



Price
49,- €

CS1002 - Oscilloscope probe 250MHz (attenuation x100)

CS1002 is a low-input capacitance high voltage oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1 MOhm shunted by 5.5pF. However, it may be compensated for use with instruments having an input capacitance of 10 to 35pF.

Technical specification:

- Attenuation ratio: 100:1
- Frequency range: DC to 250MHz
- Input impedance: 100MOhm || 5.5 pF
- Compensation range: 10pF až 35pF
- Working voltage: 1500Vrms, CAT II
- Cable length: 1,3m



Price
51,- €

CS1003 - Oscilloscope probe 50MHz (attenuation x1000)

CS1003 is high-voltage oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1 MOhm shunted by 3pF. However, it may be compensated for use with instruments having an input capacitance of 10 to 35pF.

Technical specification:

- Attenuation Ratio: 1000:1
- Frequency range: 50MHz
- Input impedance: 100MOhm || 3pF
- Compensation range: 5pF až 50pF
- Working Voltage: DC:1.5kV; AC Pulse: 30kV p-p; Sine Wave:10kVrms
- Cable length: 2m



Price
275,- €

CS1030 - Differential oscilloscope probe 25MHz (attenuation x20, x50, x200)

CS1030 is an active differential oscilloscope probe with switchable ranges (x20, x50, x 200) designed for making isolated measurements between any two points in a system.

Accessories that are included with the differential probe are: Carry Bag, Instruction Manual, Large Crocodile Clips, Long Grabber Clips, Test leads, BNC-BNC cable, Power supply.

Technical specification:

- Attenuation ranges: 20:1, 50:1, 200:1 (1M Ohm), 40:1 100:1 400:1 (50 Ohm)
- Frequency range: 15MHz (range x20), 25 MHz (range x50, x200)
- Input impedance: 4 MΩ 1.2 pF (between inputs), 2 MΩ 2.3 pF (between input and ground)
- Max Differential Voltage: 1300V (DC +peak AC)
- Max Voltage to Ground: 1000V (DC +peak AC)
- Safety standard: IEC1010-1 Cat 1. EN61010, UL3111
- Cable length: 2m
- Power supply: One internal 9V PP3 battery or external 6-9V DC



Price
271,- €

CS1031 - Differential oscilloscope probe 50MHz (x100, x200, x500, x1000)

The CS1031 is an active differential probe with switchable ranges of attenuation (x100, x200, x500 and x1000) with 50 MHz bandwidth designed for making isolated measurements between any two points in a system.

Accessories that are included with the differential probe are: Carry Bag, Instruction Manual, Large Crocodile Clips, Long Grabber Clips, Test leads, BNC-BNC cable, Power supply.

Technical specification:

- Attenuation ranges: 100:1, 200:1, 500:1, 1000:1 (1M Ohm), 200:1, 400:1, 1000:1, 2000:1 (50 Ohm)
- Frequency range: 25MHz (range x100), 50 MHz (range x200, x500, x1000)
- Input impedance: 4 MΩ 1.2 pF (between inputs), 2 MΩ 2.3 pF (between input and ground)
- Max Differential Voltage: ±6500V (DC + peak AC)
- Max Voltage to Ground: 6500V (DC + peak AC)
- Safety standard: IEC1010 Cat 1. EN61010, UL3111
- Cable length: 1m
- Power supply: One internal 9V PP3 battery or external 6-9V DC



Price
396,- €

Accessories for measuring and testing devices

Cables

LACAB0-7: Logic Analyzer Wiring Harness for ELAB-080 device

Wiring harness for digital inputs of logic analyzer for ELAB-080 device. Channels CH0-CH7.
Cable length: 0,5m



Price
13,- €

LACAB8-15: Logic Analyzer Wiring Harness for ELAB-080 device

Wiring harness for digital inputs of logic analyzer for ELAB-080 device. Channels CH8-CH15.
Cable length: 0,5m



Price
13,- €

IOCAB-1: Wiring Harness for digital I/O for ELAB-080 device

Wiring harness for digital inputs/outputs for ELAB-080 device. Wiring for digital outputs of arbitrary waveform generator, clock generator units, power supply outputs, and external trigger input
Cable length: 0,5m



Price
13,- €

CS1004: Digital probe pods cable for CS328A device (channels 1-4)

Spare cable of digital probe pods for logic analyzer inputs (CH1-CH4) of Cleverscope CS328A device.

Technical specification:

- Number of Signal Inputs: 4
- Bandwidth: 100MHz
- Input Resistance: 100 Ohm
- Working Voltage: -16V až +20V
- Cable Length: 1m



Price
78,- €

CS1005: Digital probe pods cable for CS328A device (channels 5-8)

Spare cable of digital probe pods for logic analyzer inputs (CH5-CH8) of Cleverscope CS328A device.

Technical specification:

- Number of Signal Inputs: 4
- Bandwidth: 100MHz
- Input Resistance: 100 Ohm
- Working Voltage: -16V až +20V
- Cable Length: 1m



Price
78,- €

CABUSB-AB: Interconnecting USB cable (type A-B)

Spare interconnecting USB cable to connect device to the host computer. Cable type: A-B male-male. CABUSB-AB is designed for use with following devices: ELAB-080, CS328A, CS320A.



Price
8,- €

CABUSB-Amini: Interconnecting USB cable (type USB A-mini)

Spare interconnecting USB cable to connect device to the host computer. Cable type: A-mini male-male. CABUSB-Amini is designed for use with following devices: S2X100, L16X100.



Price
8,- €

CS1020: Link cable for Cleverscope devices

A short cable to connect two Cleverscope units together via the DIG I/O ports. It allows the trigger from one unit to trigger the channels of the other. It does not matter which way round it is used.



Price
42,- €

Accessories for measuring and testing devices

Other accessories

PWELAB220: Power supply adapter for ELAB-080 device, 230V / 50Hz

Spare power supply adapter of ELAB-080 devices designed for 230V/50Hz network. Plug type: EU-continental.
Power supply output voltage: $\pm 16V$ (400mA) ; +5V (500mA)



Price
31,- €

PWELAB110: Power supply adapter for ELAB-080 device, 110V / 60Hz

Spare power supply adapter of ELAB-080 devices designed for 230V/50Hz network. Plug type: USA.
Power supply output voltage: $\pm 16V$ (400mA) ; +5V (500mA)



Price
31,- €