



Multichannel Lock-in Measurement System

Standard price list

Hardware

Chassis MCL1-540 with basic software

- » 19" rack-mount chassis 1U, embedded controller, 40 W power supply
- » Up to 5 modules and two embedded systems, USB 2.0 and 1000BASE-T Ethernet interface
- » 10 RJ45 signal connectors
- » 2 frequencies, frequency range DC – 500 kHz, 15 lock-ins, 30 configurable demodulators in total
- » Synchronous X, Y, DC, R and θ for each lock-in
- » Phase resolution 64 bit, integral resolution 96 bit
- » Sine, square-wave, triangle, sawtooth output
- » Frequency, amplitude, offset & duty cycle programmatically controllable
- » DAC / oscilloscope 10k points, FFT

5 200 EUR / 5 900 USD

Chassis MCL1-560 with basic software

- » As MCL1-540, but 19" rack-mount chassis 2U, 60 W power supply

quotation

Module MCL1M-112-4

- » 1 analog output 1 MSPS 20 bit, $\pm 10/1.0/0.1$ V full range, 50 mA current output
- » 2 differential analog inputs + current measurement of output current, 1 MSPS 18 bit
- » ± 10 V full range, AC/DC coupling 0.2 Hz break frequency
- » preamplifier 1 – 5000 in 12 steps, 3.8 nV/ $\sqrt{\text{Hz}}$ noise floor, < 15 nV/ $\sqrt{\text{Hz}}$ @ 1 Hz
- » 30 G Ω input impedance, < 1 nA input bias current, > 100 kHz analog bandwidth

3 400 EUR / 3 900 USD

Module MCLM-112-18

- » 1 analog output 1 MSPS 20 bit, $\pm 10/1.0/0.1$ V full range, 50 mA current output
- » 2 differential analog inputs + current measurement of output current, 1 MSPS 18 bit
- » ± 10 V full range, AC/DC coupling Hz break frequency
- » preamplifier 1 – 5000 in 12 steps, 18 nV/ $\sqrt{\text{Hz}}$ noise floor, < 70 nV/ $\sqrt{\text{Hz}}$ @ 1 Hz
- » > 1 T Ω input impedance, 10 pA typ input bias current, 10 kHz bandwidth @ 2 mV full range

3 400 EUR / 3 900 USD

Module MCLM-112-1.8

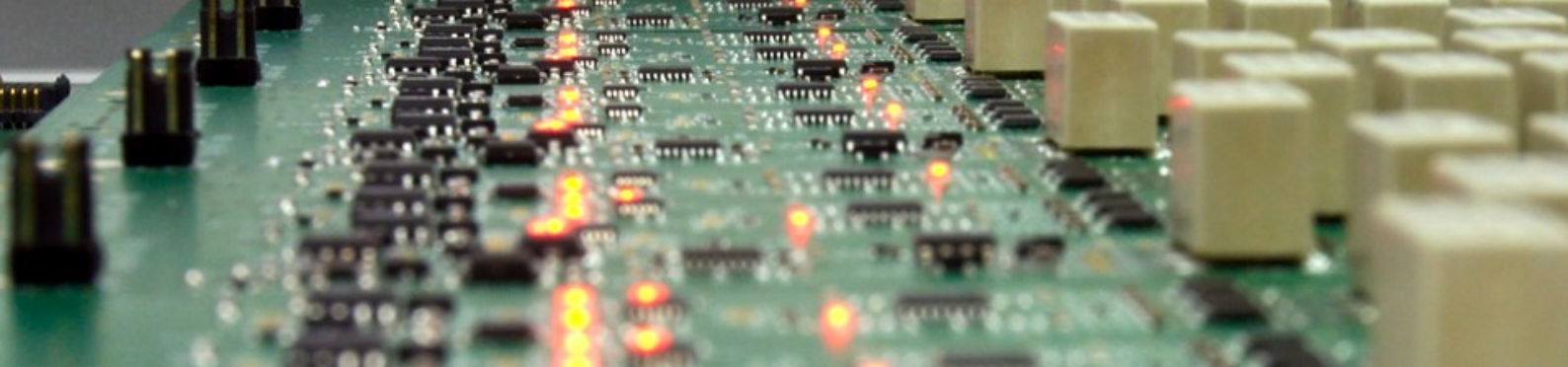
- » 1 analog output 1 MSPS 20 bit, $\pm 10/1.0/0.1$ V full range, 50 mA current output
- » 2 differential analog inputs + current measurement of output current, 1 MSPS 18 bit
- » ± 10 V full range, AC/DC coupling Hz break frequency
- » preamplifier 1 – 5000 in 12 steps, < 1.8 nV/ $\sqrt{\text{Hz}}$ noise floor @ 1 kHz, < 10 nV/ $\sqrt{\text{Hz}}$ @ 1 Hz
- » 1 G Ω input impedance, 15/0.5 nA input bias/offset current, 100 kHz bandwidth @ 2 mV full range

3 400 EUR / 3 900 USD

Embedded system MCL1-RS

- » Additional embedded system with FPGA for user programmed real-time data processing
- » Requires LabVIEW real-time and FPGA-package

quotation



Extended warranty EW-3

- » Extended warranty three years, general warranty conditions apply

15% of hardware price

Accessories

Breakout box BB8-BNC

- » Breakout 8 RJ45 to 32 BNC, 19" rack-mount 3U

790 EUR / 890 USD

Breakout box BB-BAN

- » Breakout RJ45 to Banana, 19" rack-mount 5U

1500 EUR / 1700 USD

Fischer connection box FSCHR

- » 3xRJ45 to Fischer SFPU105A093-80GF

270 EUR / 300 USD

RJ45 signal cables

- » S/FTP Cat7 patchkabel LSZH with individually shielded twisted pairs, grey
- » 0.3 / 0.5 / 1 / 2 / 3 / 5 / 10 / 15 / 30 m

9 / 14 / 16 / 21 / 28 / 33 / 50 / 68 / 82 EUR
10 / 16 / 18 / 23 / 31 / 37 / 56 / 76 / 92 USD

All prices are according to Incoterms 2010 EXW Stockholm, Sweden. Reservation for misprints.
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