ME2100-System

Technical Specifications

General Characteristics
Operating temperature: 10 °C to 50 °C
Storage temperature: 0 °C to 50 °C
Relative humidity: 10 % to 85 %, non-condensing

Headstages
Length of the cable: Optional: 3 m, 5 m or 10 m
ME2100-HS32-S and ME2100-HS32-M
ME2100-µPA16 and ME2100-µPA32

Integrated Amplifier
Number of analog recording channels: 32
Ground input: 1 additional ground input
Reference inputs: Freely selectable reference inputs or fixed references on channel 8, 16, 24 or 32
Data resolution: 24 bit
Signal input voltage range: ± 500 mV (ME2100-HS32-S / -M); ± 250 mV (ME2100-µPA16 / 32)
Bandwidth: DC to 10 kHz, software controlled
Sampling frequency per channel: up to 50 kHz, software controlled
Input impedance: 470 MΩ || 10 pF (ME2100-HS32-S / -M); 1 GΩ @ 1 kHz (ME2100-µPA16 / 32)

Intergated Stimulus Generator: ME2100-HS32-S and ME2100-HS32-M only!
Output current: ± 1.5 mA @ ± 16 V compliance voltage
Output voltage: ± 10 V @ ± 20 mA max. compliance current
Stimulation pattern: User customizable patterns
Number of stimulation channels: 32 (each channel can be used for stimulation, 2 channels can be used for external stimulation).
Resolution: 16 bit

External Stimulation: ME2100-HS32 only!
1 Output connector: 6-pin connector (Preci-dip series 853, 1.27 mm grid, 0.44 mm round pin)

Signal Collector Unit SCU
Dimension (W x D x H): 250 mm x 83 mm x 25 mm
Weight: 300 g
4 Inputs for headstages (HS1 to HS 4): Lemo connector, EPG.08.307.HLN
1 Connector with 4 analog outputs for LED driver: Lemo connector, EPG.08.304.HLN
Voltage output of each analog output: 0 - 5 V
1 64-Channel Analog Out connector: 68-pin MCS standard connector, Honda-PCS-X68LFD
2 Signal Collector Unit to Interface Board connectors: External power over iX-industrial cable, type B

up to 8 headstages can be connected
Please read also: ME2100-HS32-S / -M_Datasheets
Please read also: ME2100-µPA16 / 32_Datasheets
# ME2100-System

## Technical Specifications

### Interface Board IFB-C Multiboot
- **Dimensions (W x D x H):** 250 mm x 83 mm x 25 mm
- **Weight:** 300 mg

### Front Panel
- **2 Sync IN and Sync OUT**
- **1 8-Channel Analog IN**
- **2 Analog Inputs, Channel 1 and Channel 2**
- **Signal input range for analog channels**
- **Gain for analog channels**
- **2 LEDs**
- **4 Digital Inputs**
- **4 Digital Outputs**
- **1 Ground**

### Rear Panel
- **I / O Switch On / Off**
- **1 Power supply** MPU 30, PWR DC 0.65 x 2.75 mm
- **1 Ground** Common jack 4 mm, banana plug
- **1 16 bit Digital In / Out**
- **2 Auxiliary channels (Not in use!)**
- **1 Audio output**
- **1 JTAG DSP**
- **2 IFB-C to SCU connectors**
- **2 USB-C ports**

### Power Supply Unit
- **Input voltage range** 110 - 240 V
- **Output voltage** 24 V
- **Max. power** 65 W
- **Mark of conformity** CE, TÜV, cUL
- **European standard** EN60601

### Software
- **Operating system** Microsoft Windows ®
- **Multi Channel Suite software package:**
  - Multi Channel Experimenter
  - Multi Channel Analyzer
  - Multi Channel DataManager
- **Version:**
  - Multi Channel Experimenter: Version 2.17.6 and higher
  - Multi Channel Analyzer: Version 2.17.6 and higher
  - Multi Channel DataManager: Version 1.13.3 and higher

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