# MCS-IFB 3.0 Multiboot Interface Board

## Technical Specifications

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|---|---|
| **Interface Board „MCS-IFB 3.0 Multiboot“ and Connectors** | |
| Operating temperature | 10 °C to 50 °C |
| Storage temperature | 0 °C to 50 °C |
| Relative humidity | 10 % to 85 % , non-condensing |
| Dimensions (W x D x H) | 250 mm x 83 mm x 25 mm |
| Weight | 300 g |
| **Front Panel** | |
| 4 Digial inputs | Lemo connector, EPL 00250 NTN |
| 4 Digital outputs | Lemo connector, EPL 00250 NTN |
| 2 Auxiliary channels | Lemo connector, EPL 00250 NTN |
| **Rear Panel** | |
| 1 16 Bit Digital In / Out | 68-pin MCS standard connector |
| 1 8-Channel Analog In | 10-pin connector (2.54 mm grid), dual row standard IDC |
| 2 Analog Inputs | Lemo connector, EPL 00250 NTN |
| Signal input range for analog channels | ± 2500 mV |
| Gain for analog channels | 2 * |
| 1 Digital signal processor DSP port | 20-pin JTAG connector (1.27 / 2.54 mm grid), dual row |
| 2 USB 3.0 ports | USB 3.0 super speed cable (type A - micro B) |
| Power supply | MPU 30, PWR DC 0.85 x 2.75 mm |
| Ground | Common jack 4 mm, banana plug |
| 1 Audio output | Stereo jack 3.5 mm |
| **Side Panel** | |
| 2 Interface board to headstage connectors | External power over serial ATA (eSATAp) |

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|---|---|
| **Power Supply Unit (MPU 30)** | |
| Input voltage | 90 - 264 VAC @ 47 - 63 Hz |
| Output voltage | 11 - 13 V |
| Max. power | 30 W |
| Mark of conformity | CE, TÜV, cUL |
| European standard | EN60601 |
| **Software** | |
| Operatring system<br>Microsoft Windows ® | Windows 10, 8.1, and Windows 7 (32 or 64 bit),<br>English and German version supported |
| Data acquisition and analysis software | |
| Multi Channel Experimenter | Version 1.5.1 and higher |
| Multi Channel Analyzer | Version 1.5.1 and higher |
| MC_Rack | Version 4.1.1 and higher |
| Data export software | |
| Multi Channel DataManager | Version 1.6.1 and higher, HDF5 (Madlab, Python,<br>NEX (NeuroExplorer), CED (Spike), ASCII |
| MC_DataTool | Version 2.6.3 and higher<br>Axion binary file, ASCII, binary file |

* Important: In MC_Rack software the scaling of the analog channels is not correct for a factor of 2, because the gain of the analog channels is not considered.

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