

## ARM Cortex-A9 IMP-Master



IMP-MAS3 is an IMP master with a powerful ARM CPU for applications of basic to medium complexity. As a fieldbus controller for INFO-Link, IMP-MAS3 controls and coordinates the entire periphery. In addition, up to 16 IMP participants can be directly addressed via the local IMP bus. The power supply for additional participants is already integrated into this module.

## IMP-MAS3 INFO

**INFO-Link  
IMP-Master  
incl. 5V / 24V  
Power Supply**

### Technical data

|                                   |                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------|
| Interfaces                        | 1 × INFO-Link (Rx & Tx)<br>1 × Gigabit Ethernet<br>1 × SIO (RS232 / RS422)<br>1 × IMP-Bus |
| Real-time clock                   | Ja                                                                                        |
| CPU                               | ARM Cortex-A9 dual-core, 800 MHz                                                          |
| Memory                            | 256 MByte DDR-RAM<br>8 MByte NOR-Flash<br>512 kByte NVRAM                                 |
| Floating Point Unit               | Yes                                                                                       |
| Max. Number of IMP participants   | 16                                                                                        |
| Response time per participant     | 4 µs                                                                                      |
| Rated voltage                     | 24 V DC (18 ... 32 V)                                                                     |
| Board supply I <sub>MAX</sub> K24 | 1.0 A @ 24 V                                                                              |
| Power consumption board supply    | 250 mA @ 24 V to K24                                                                      |
| I/O supply I <sub>MAX</sub> P24   | 10 A P24V (on-board fuse)                                                                 |
| Power consumption I/O supply      | 5 mA @ 24 V to P24V                                                                       |
| Operating temperature             | 0 ... +45 °C                                                                              |
| Storage temperature               | -20 ... 70 °C                                                                             |
| Relative humidity                 | 95%, no condensation                                                                      |
| EMC                               | EN 61000-6-2 / EN 61000-6-4                                                               |
| Protection class                  | IP 20                                                                                     |
| Dimensions                        | 114.5 × 99 × 45 mm (h × d × w)                                                            |

### Pin assignment

|                        |          |      |      |      |    |
|------------------------|----------|------|------|------|----|
|                        | X1 4     | X1 3 | X1 2 | X1 1 | X1 |
|                        | RJ12     |      |      |      | X2 |
| SIO1                   | K0V      | K24  | P0V  | P24V |    |
|                        | SIO      |      |      |      |    |
|                        | INDEL    |      |      |      |    |
|                        | K24V     |      | P24V |      |    |
|                        | +5V      |      | Fuse |      |    |
|                        | IMP-MAS3 |      |      |      |    |
|                        | Ok       |      | Err  |      |    |
|                        | Rec      |      | +5V  |      |    |
| INFO-Link Master/Slave |          |      |      |      |    |
| Receive                |          |      |      |      |    |
| Transmit               |          |      |      |      |    |
|                        | Ethernet |      |      |      |    |
| X7                     | TORx 194 |      |      |      |    |
| X8                     | TORx 195 |      |      |      |    |
|                        | RJ45     |      |      |      | X4 |

| Indel-No. | Label & Option |
|-----------|----------------|
| 612058425 | IMP-MAS3 INFO  |