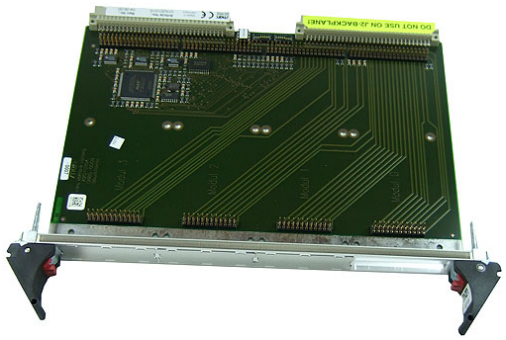
A201S – 6U VMEbus M-Module™ Carrier Board

- **4 M-Module™ slots**
- **1 VMEbus slot**
- **VMEbus slave A16/A24/D16, interrupter**
- **-40 to +85°C screened versions**

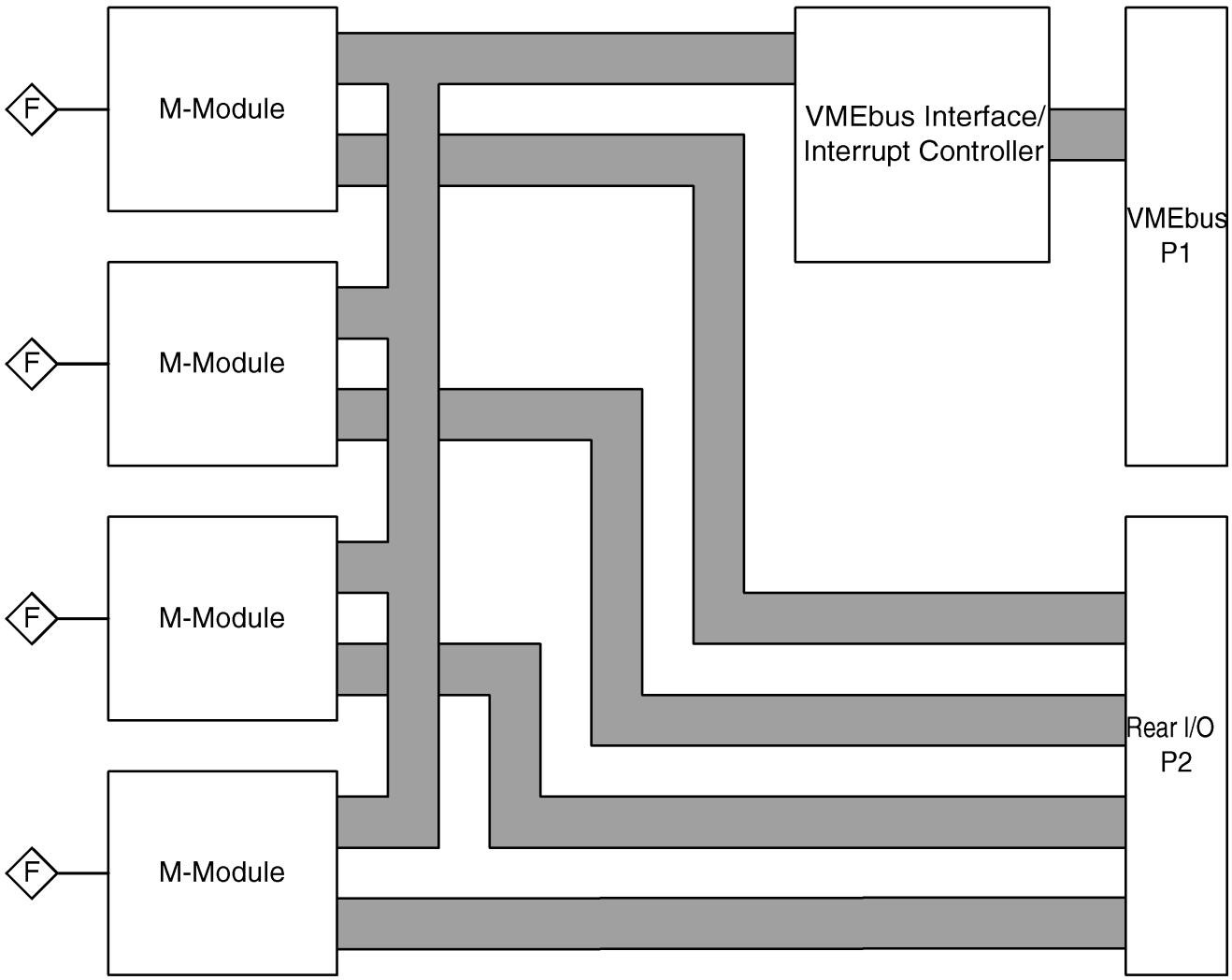


The A201S is an M-Module™ carrier board for universal I/O on the VMEbus, allowing high flexibility in applications such as process and motion control, measuring and instrumentation, communication or special-purpose tasks.

The M-Modules™ are screwed tightly on the carrier board, but the board needs only one slot on the VMEbus. Please note that since all three rows of the P2 connector are used for user I/O, board models with this connector are not compatible with VME64 backplanes.

An interrupt controller handles the M-Modules™ individually. In VMEbus D16 systems the I/O signals of the M-Modules™ can be accessed from P2/J2 inside the rack.

Diagram


M-Module
M-Module
M-Module
M-Module
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VMEbus Interface/
Interrupt Controller
VMEbus
P1
Rear I/O
P2

Technical Data

Mezzanine Slots	■ Four M-Module™ slots ■ Compliant with M-Module™ standard ■ Characteristics: D08, D16, A08, INTA, INTC
Interrupt Controller	■ Interrupt handling individually for each M-Module™ ■ Functional compatibility with A201N
Peripheral Connections	■ Via front panel ■ Via 96-pin P2 connector (rear I/O)
VMEbus	■ Only one slot required on the VMEbus ■ Models with P2 connector not compatible with VME64 backplanes (row B of the P2 connector is used for user I/O) ■ Slave D08(EO):D16:A16:A24 ■ Interrupter D08(O)
Electrical Specifications	■ Supply voltage/power consumption: +5V (-3%/+5%), 320mA typ. (without M-Modules™)
Mechanical Specifications	■ Dimensions: standard double Eurocard, 233.3mm x 160mm ■ Front panel: aluminum with 2 handles, cut-outs for front connectors of 4 M-Modules™ ■ Weight: 220g
Environmental Specifications	■ Temperature range (operation): □ 0..+60°C or -40..+85°C □ Airflow: min. 10m³/h ■ Temperature range (storage): -40..+85°C ■ Relative humidity range (operation): max. 95% without condensation ■ Relative humidity range (storage): max. 95% without condensation ■ Altitude: -300m to + 3,000m ■ Shock: 15g/11ms ■ Bump: 10g/16ms ■ Vibration (sinusoidal): 2g/10..150Hz ■ Conformal coating on request
MTBF	■ 430,000h @ 50°C (derived from MIL-HDBK-217F)
Safety	■ PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers
EMC	■ Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)
Software Support	■ M-Module™ drivers for Windows®, VxWorks®, Linux, QNX®, OS-9® as supported ■ Basic board driver included in MDIS™ system package for the respective operating system

Ordering Information

Standard A201S Models	**01A201S02**	M-Module™ carrier board, on-board 16MHz-supply, with P2, -40..+85°C screened
	01A201S09	M-Module™ carrier board, on-board 16MHz-supply, with P2, 0..+60°C
	01A201S11	M-Module™ carrier board, on-board 16MHz-supply, without P2, -40..+85°C screened
	01A201S12	M-Module™ carrier board, on-board 16MHz-supply, without P2, 0..+60°C
	01A201S16	M-Module™ carrier board, on-board 16MHz-supply, ELMA ejectors, with P2, 0..+60°C
	01A201S18	M-Module™ carrier board, on-board 16MHz-supply, ELMA ejectors, without P2, 0..+60°C
Miscellaneous Accessories	**05M000-15**	Front-panel cover for M-Module™ cut-outs at front panels, snap-in, 10 pcs
	05M000-17	25 mounting screw sets to fix M-Modules™ on carrier boards
Software: Miscellaneous	Driver software for Windows®, Linux, VxWorks®, QNX®, RTX and OS-9® is available for the different M-Modules™. Please refer to the M-Module™/s of your choice for information and download. A basic board driver for this carrier card is included in the MDIS™ system package for the respective operating system. You can find an overview of available packages for download under www.men.de/mdis.	

For operating systems not mentioned here contact MEN sales.

Documentation	Compare Chart 6U VMEbus CPU and I/O cards » Download	
	20A201S00	A201S User Manual

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