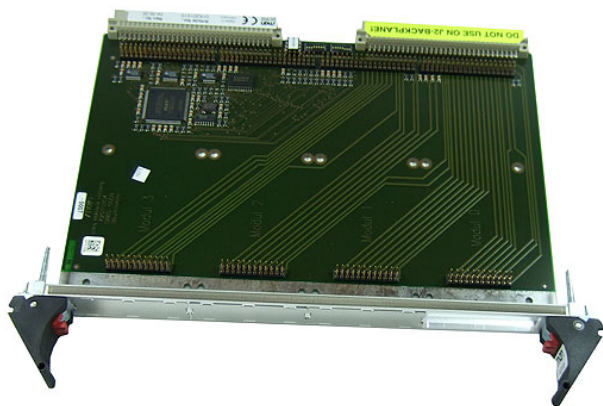


A201S - 6U VMEbus M-Module™ Carrier Board



- 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.

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™)
- MTBF: 430,000h @ 50°C (derived from MIL-HDBK-217F)

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

Safety

- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

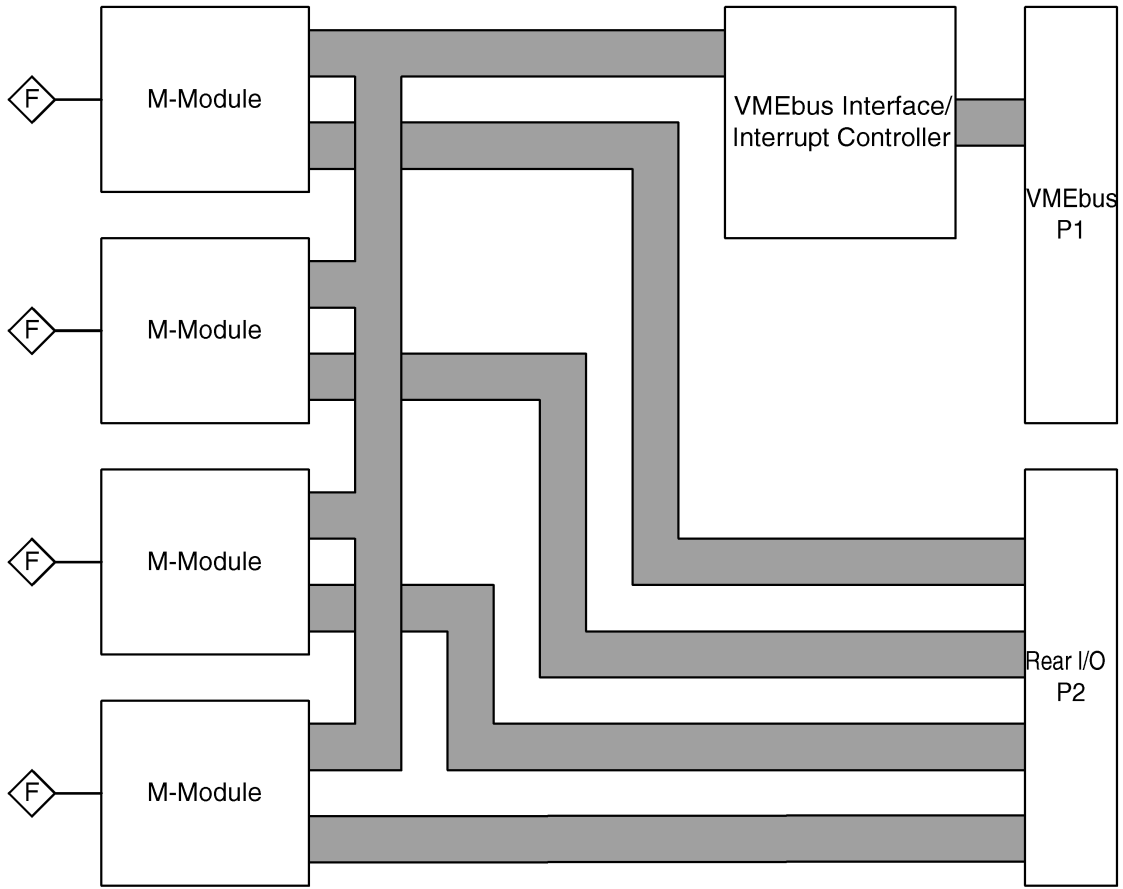
EMC

- 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

Diagram



Ordering Information

Standard Hardware

- 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
- 01A201S15** M-Module carrier board, on-board
16MHz-supply, ELMA ejectors, with P2,
-40..+85°C screened
- 01A201S16** M-Module carrier board, on-board
16MHz-supply, ELMA ejectors, with P2,
0..+60°C
- 01A201S17** M-Module carrier board, on-board
16MHz-supply, ELMA ejectors, without P2,
-40..+85°C screened
- 01A201S18** M-Module carrier board, on-board
16MHz-supply, ELMA ejectors, without P2,
0..+60°C

Miscellaneous

- 05M000-01** M-Module cable, 2m, 21-pin VG receptacle to
pig tail, for connection to VMEbus P2
mating connector (05M000-02), for wiring of
M-Module I/O signals via P2
- 05M000-02** VMEbus P2 connector for cable connection of
4 21-pin M-Module cables (05M000-01) for
mounting in VMEbus enclosure without J2
backplane, consisting of 96-pin shroud and
receptacle
- 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

Documentation

- 20A201S00** A201S User Manual

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the A201S online data sheet under » www.men.de.

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