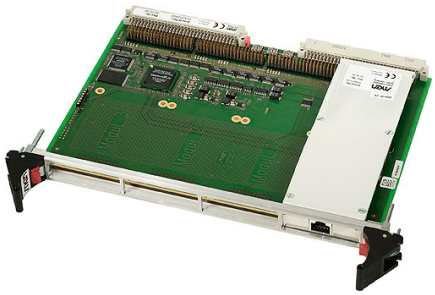
A203N

M-Module Carrier Board for 4 Mezzanine Cards

6U VME64

- *4 M-Module slots*
- *1 VME64 slave slot*
- *7-level interrupter*
- *-40 to +85°C with qualified components*



The A203N is an M-Module carrier board for universal I/O on the VMEbus, allowing high flexibility in applications such as process and motion control, measurement and instrumentation, communication or special-purpose tasks. The M-Modules are screwed tightly on the carrier board, and the board needs only one slot on the VMEbus. The A203N is a VME64 slave card and supports four D16/D32 M-Modules with the signals either at the front or via rear I/O. An interrupt controller handles the M-Modules individually.

For rugged requirements the A203N is equipped with a stiffener front panel, allows a standard -40 to +85°C operation temperature and is prepared for conformal coating.

Additionally, the A203N is prepared for DMA transfer support.

Data Sheet

Mezzanine Slots

- Four M-Module slots
- Compliant with M-Module standard
- Characteristics: D08, D16, D32, A08, A24, INTA, INTC, TRIGO, TRIGI
- Prepared for DMA16, DMA32
- Prepared for D16 burst, D32 burst

Interrupt Controller

- Interrupt handling individually for each M-Module

Peripheral Connections

- Via front panel
- Via 160-pin P2 connector (rear I/O)

VMEbus

- Only one slot required on the VMEbus
- Slave
  - D08(EO):D16:D32:A16:A24:A32;BLT, prepared for D16BLT and D32BLT
- Interrupter D08(O):I(7-1)

Electrical Specifications

- Supply voltage/power consumption: +5V (-3%/+5%), typ. 140mA (without M-Modules)
- MTBF: 274,000h @ 40°C (derived from MIL-HDBK-217F)

Mechanical Specifications

- Dimensions: standard double Eurocard, 233.3mm x 160mm
- Front panel: stiffener panel, aluminum with 2 handles, cut-outs for front connectors of 4 M-Modules
- Weight: 350g

Environmental Specifications

- Temperature range (operation):
  - -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), IEC 61000-4-2 (ESD) and IEC 61000-4-4 (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

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