

A203N – 6U VME64 M-Module™ Carrier Board

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

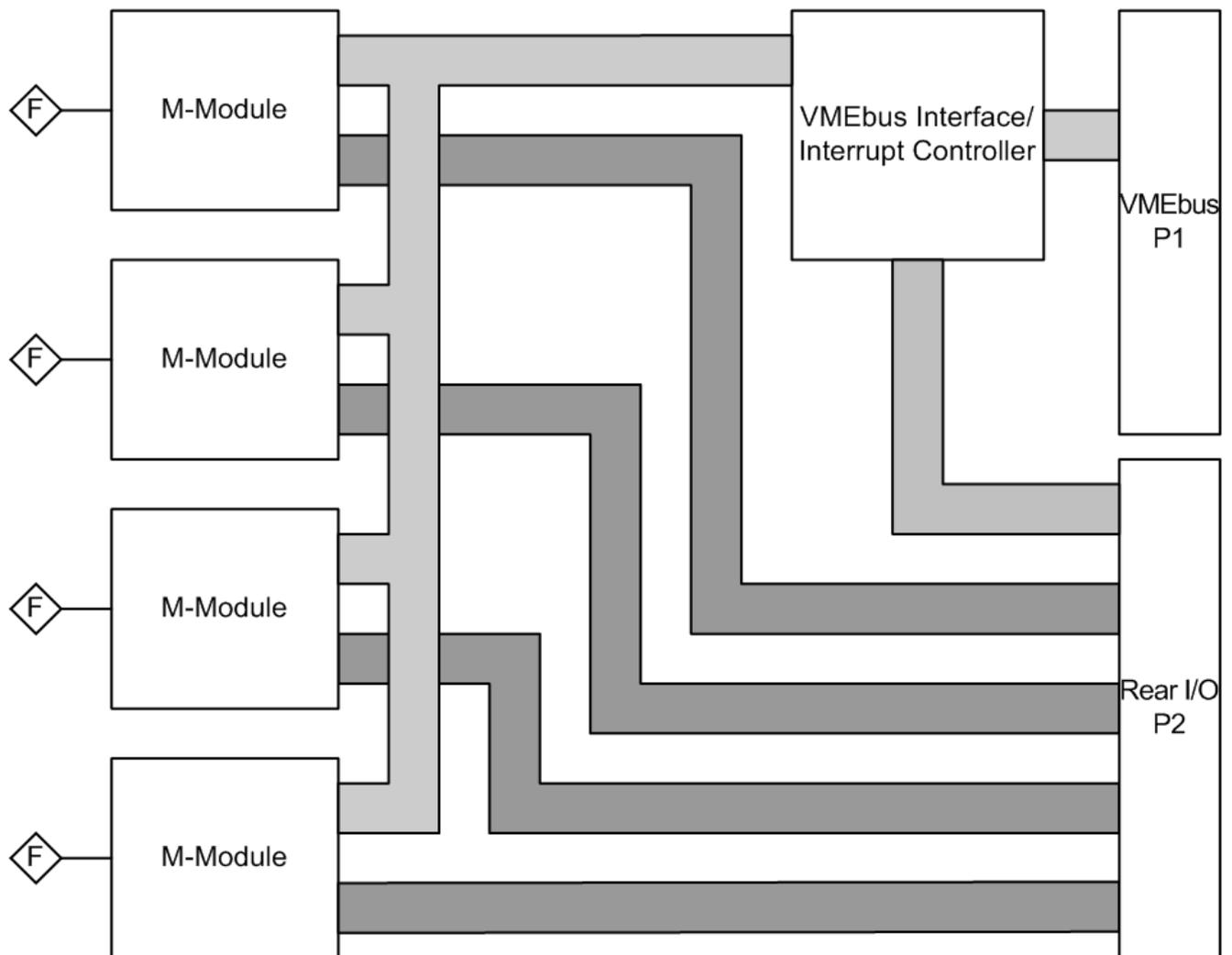


The A203N is an M-Module™ carrier board for universal I/O on the VMEbus, allowing high flexibility in applications such as process and motion control, measurement and instrumentation, communication or special-purpose tasks. The M-Modules™ are screwed tightly on the carrier board, and the board needs 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.

Diagram



Technical Data

Mezzanine Slots	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Interrupt handling individually for each M-Module™
Peripheral Connections	<ul style="list-style-type: none"> ■ Via front panel ■ Via 160-pin P2 connector (rear I/O)
VMEbus	<ul style="list-style-type: none"> ■ Only one slot required on the VMEbus ■ Slave <ul style="list-style-type: none"> □ D08(E0):D16:D32:A16:A24:A32;BLT, prepared for D16BLT and D32BLT ■ Interrupter D08(O):I(7-1)
Electrical Specifications	<ul style="list-style-type: none"> ■ Supply voltage/power consumption: +5V (-3%/+5%), typ. 140mA (without M-Modules™) ■ MTBF: 274,000h @ 40°C (derived from MIL-HDBK-217F)
Mechanical Specifications	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Temperature range (operation): <ul style="list-style-type: none"> □ -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	<ul style="list-style-type: none"> ■ PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers
EMC	<ul style="list-style-type: none"> ■ Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)
Software Support	<ul style="list-style-type: none"> ■ 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 A203N Models	01A203N00	M-Module™ carrier board, -40...+85°C with qualified components
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	20A203N00	A203N User Manual

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