

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

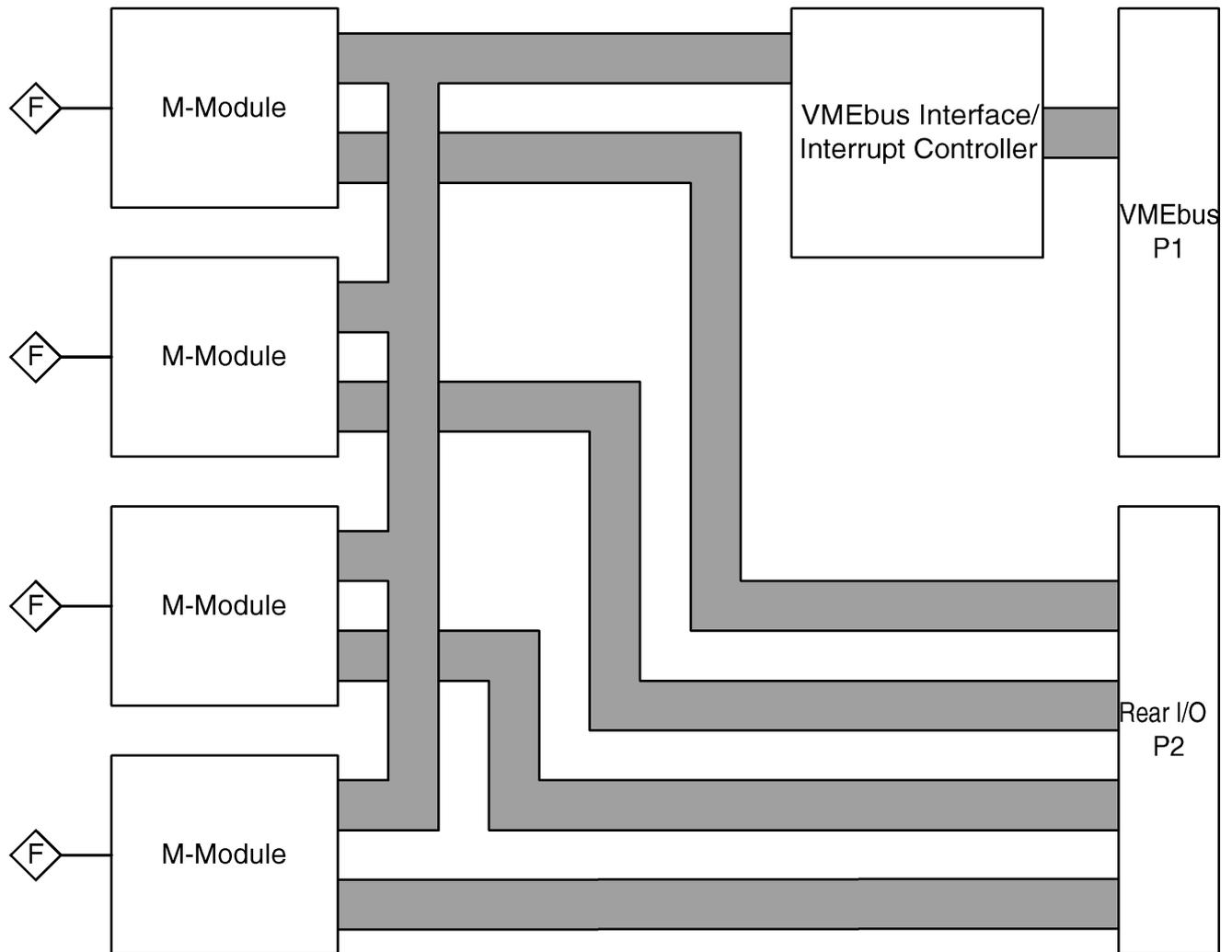
The A201S is an M-Module™ carrier board for universal I/O on the VMEbus, allowing high flexibility in applications such as process and motion control, measuring and instrumentation, communication or special-purpose tasks.



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



Technical Data

Mezzanine Slots	<ul style="list-style-type: none"> ■ Four M-Module™ slots ■ Compliant with M-Module™ standard ■ Characteristics: D08, D16, A08, INTA, INTC
Interrupt Controller	<ul style="list-style-type: none"> ■ Interrupt handling individually for each M-Module™ ■ Functional compatibility with A201N
Peripheral Connections	<ul style="list-style-type: none"> ■ Via front panel ■ Via 96-pin P2 connector (rear I/O)
VMEbus	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Supply voltage/power consumption: +5V (-3%/+5%), 320mA typ. (without M-Modules™)
Mechanical Specifications	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Temperature range (operation): <ul style="list-style-type: none"> □ 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	<ul style="list-style-type: none"> ■ 430,000h @ 50°C (derived from MIL-HDBK-217F)
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 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	<p>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.</p> <p>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.</p>	
<p>For operating systems not mentioned here contact MEN sales.</p>		
Documentation	Compare Chart 6U VMEbus CPU and I/O cards » Download	
	20A201S00	A201S User Manual

Contact Information

Germany

MEN Mikro Elektronik GmbH
Neuwieder Straße 3-7
90411 Nuremberg
Phone +49-911-99 33 5-0
Fax +49-911-99 33 5-901

info@men.de
www.men.de

France

MEN Mikro Elektronik SA
18, rue René Cassin
ZA de la Châtelaine
74240 Gaillard
Phone +33 (0) 450-955-312
Fax +33 (0) 450-955-211

info@men-france.fr
www.men-france.fr

USA

MEN Micro Inc.
860 Penllyn Blue Bell Pike
Blue Bell, PA 19422
Phone (215) 542-9575
Fax (215) 542-9577

sales@menmicro.com
www.menmicro.com

The date of issue stated in this data sheet refers to the Technical Data only. Changes in ordering information given herein do not affect the date of issue. All brand or product names are trademarks or registered trademarks of their respective holders.

MEN is not responsible for the results of any actions taken on the basis of information in the publication, nor for any error in or omission from the publication.

MEN expressly disclaims all and any liability and responsibility to any person, whether a reader of the publication or not, in respect of anything, and of the consequences of anything, done or omitted to be done by any such person in reliance, whether wholly or partially, on the whole or any part of the contents of the publication.

The correct function of MEN products in mission-critical and life-critical applications is limited to the environmental specification given for each product in the technical user manual. The correct function of MEN products under extended environmental conditions is limited to the individual requirement specification and subsequent validation documents for each product for the applicable use case and has to be agreed upon in writing by MEN and the customer. Should the customer purchase or use MEN products for any unintended or unauthorized application, the customer shall indemnify and hold MEN and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim or personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that MEN was negligent regarding the design or manufacture of the part.

In no case is MEN liable for the correct function of the technical installation where MEN products are a part of.

Copyright © 2014 MEN Mikro Elektronik GmbH. All rights reserved.