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M46 - Triple Communication Controller

Internal!

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Product Description



» Large picture

3 independent communication channels
RS232 interface
Modem operation
9 control lines per channel
External clock
Local 32-bit CPU
RISC and DMA controller
256KB DRAM, 0.5MB EPROM, 4KB FIFO

The M46 is based on the M-Module™ ANSI mezzanine standard. It can be used as an I/O extension in any type of bus system, i.e. CPCI, PXI™, VME or on any type of stand-alone SBC. Appropriate M-Module™ carrier cards in 3U, 6U and other formats are available from MEN or other manufacturers.
The M46 features an MC68302 multiprotocol processor. The M-Module™ is especially suited for communication in flexible data processing applications, for all common industrial interfaces, for modem-like applications and data collection systems as well as bridges and gateways in networks. The three intelligent serial channels are supported by a RISC and a DMA controller. 9 control lines per channel incl. clocks allow control of external devices such as modems or testing equipment. Interprocessor communication is done with two independent 2-KB FIFOs. The M46 does not need any plug-on PCBs and has more handshake lines than M17.

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Technical Data

CPU	MC68302/16MHz CPU
Memory	2KB bidirectional FIFO for interprocessor communication Max. 0.5MB EPROM/Flash (32-pin JEDEC socket, 128KB standard) EPROM with write protection for boot software Max. 1MB DRAM (256KB standard)
Miscellaneous	RS232 interface Local 6-channel DMA controller Local interrupt controller Hardware watchdog RISC CPU for interfaces 3 independent full-duplex serial interface controllers
Peripheral Connections	Via front panel on a shielded 25-pin D-Sub receptacle connector Via carrier board (rear I/O)
M-Module™ Characteristics	A08, D08, INTA, IDENT
Electrical Specifications	Supply voltage/power consumption: +5V (4.85V..5.25V), 500mA typ. MTBF: tbd. (derived from MIL-HDBK-217F)

Mechanical Specifications	Dimensions: conforming to M-Module™ Standard Weight: 98g
Environmental Specifications	Temperature range (operation): • 0..+60°C • Industrial temperature range on request • Airflow: min. 10m³/h Temperature range (storage): -40..+85°C Relative humidity range (operation): max. 95% non-condensing Relative humidity range (storage): max. 95% non-condensing 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) with regard to CE conformity
Software Support	On request

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Diagram



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