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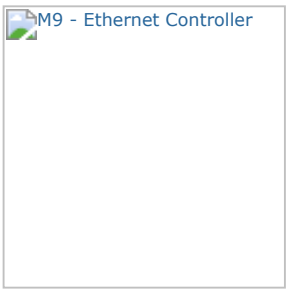
M9 - Ethernet Controller

Internal!

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Product Description



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Am79C90 Local Area Network Controller
Ethernet interface
- 10Base-5 or
- 10Base-2 connection
64KB dual-ported SRAM

The M9 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 M9 complies with the IEEE-802.3 standard. Data rates of 10Mbits/s can be achieved at a network length of 2,500 meters with up to 100 stations.
The Ethernet is intended primarily for use in such areas as office automation, distributed data processing, terminal access, and other situations requiring economical connection to a local communication medium.
The M9 has a combined D-Sub/BNC connector. 2 adaption connectors convert to 10Base-5 or 10Base-2. 10Base-T can only be supported via a 10Base-5-to-10Base-T adapter (commercially available).

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Technical Data

AM7990	48-byte FIFO DMA controller Data rate up to 10Mbits/s OSI/ISO layer 1 and 2 Network diagnosis: CRC, loop back, collision detection
Memory	64KB SRAM, pointer addressable Autoincrement possible Memory control according to ring buffer principle
Peripheral Connections	Via front panel on a shielded combined 15-pin D-Sub receptacle connector with adapter: • 15-pin AUI D-Sub connector (10Base-5) or • BNC connectors (10Base-2)
M-Module™ Characteristics	A08, D16, INTA, IDENT
Electrical Specifications	Isolation voltage: 500V DC Supply voltage/power consumption: +5V (4.85V..5.25V), 1A typ. MTBF: 35,000h @ 50°C (derived from MIL-HDBK-217F)
Mechanical Specifications	Dimensions: conforming to M-Module™ Standard Weight: 100g

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/0.33ms, 6g/6ms Vibration: 1g/5..2,000Hz 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	VxWorks® driver OS-9® driver

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Diagram



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