



PC/104 ARCNET MODULE

DESCRIPTION

The M440R module is a ARCNET network interface module based on COM20020 controller from SMSC.

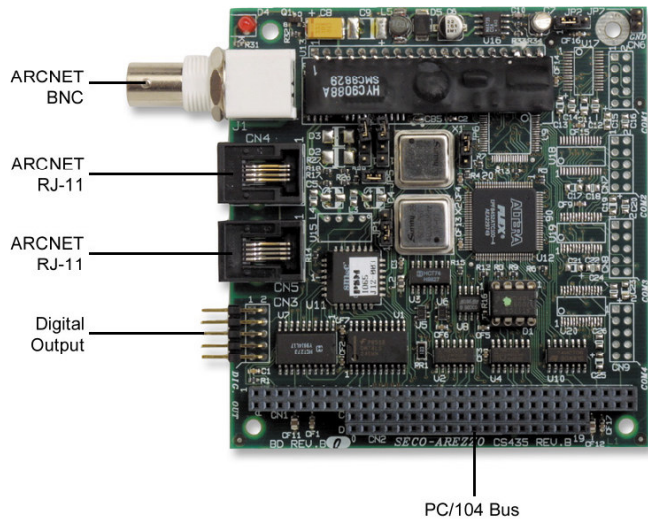
ARCNET incorporates a token-passing protocol where media access is determined by the station with the token. When a station receives the token, it can either initiate a transmission to another station or it must pass the token to its logical neighbor.

The token-passing protocol provides predictable response times because each network event occurs within a predetermined time interval, based upon the number of nodes on the network.

The M440R module integrates the 2Kx8 RAM buffer on-chip, the Command Chaining feature, the 5 Mbps maximum data rate and the duplicate node ID detection.

The module is available in two configurations: with coaxial connection using a BNC connector, or with twisted-pair connection using a RJ-11 connector.

The ARCNET protocol is the ideal solution for applications such as industrial control, building automation, transportation, robotics and gaming. ARCNET is simple to use, low-cost, extremely rugged and high performing.



ORDERING INFORMATION

Part Number	Description
M440R-AB	ARCNET Controller with Twisted-Pair connection
M440R-AC	ARCNET Controller with Coaxial connection

TECHNICAL SPECIFICATIONS

- **COM20020 ARCNET Controller**
- **Addresses and Interrupts** configurable via software
- **5 Mb/s maximum data rate**
- **8 user accessible bit programmable Outputs**
- **Supports up to 255 Nodes**
- **2Kx8 On-Chip Dual Port RAM**
- **Command Chaining**
- **Duplicate node ID detection**
- **Software Programmable Node ID**
- **Coaxial and Twisted-Pair connection**
- **Standard:** ANSI 878.1 Token Passing Protocol
- **PC/104 expansion:**
 - 16-bit standard 64 + 40 pins connector
- **Environmental**
 - Power supply voltage: +5V
 - Operating temperature: 0° to 60° C
 - Storage temperature: -20° to 85° C
 - Relative humidity: 5% to 95%
- **Dimensions** 90 × 96 mm (3.6 × 3.8")
 - vertical 19 mm (0.75") for each additional PC/104