

PC/104 ARCNET MODULE WITH 4 RS-232C SERIAL PORTS



DESCRIPTION

The M435R 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 neighbour.

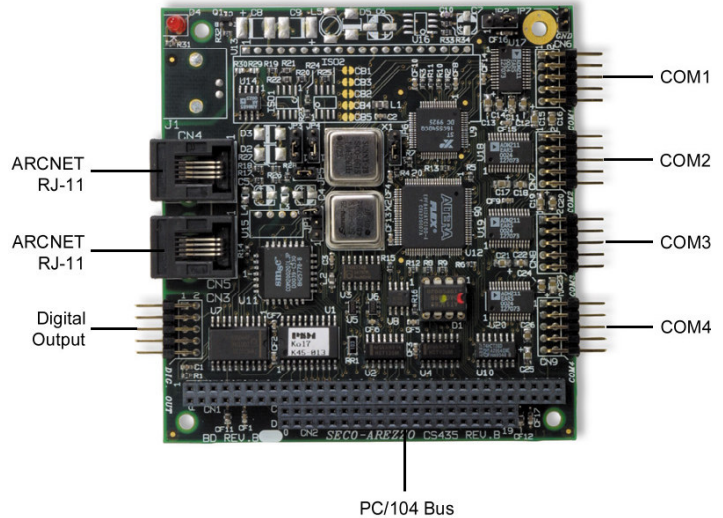
The token-passing protocol provides predictable response time because each network event occurs within a predetermined time interval, based upon the number of nodes on the network.

The M435R 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.

For extended functionality the M435R module is provided with 8 programmable Outputs and 4 standard RS-232C Full modem serial ports. Each of these serial ports can be configured to use standard addresses for COMS ports or can be software configured to be mapped at user chosen addresses. Also the IRQ's can be SW configured, so that the ports can use different IRQ lines or share an unique line.

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
M435R-AB	ARCNET Controller with Twisted-Pair connection; 4 RS232
M435R-AC	ARCNET Controller with Coaxial connection; 4 RS232

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**
- **4 RS-232C Full Modem Serial ports**
- **PC/104 expansion:**
 - 16-bit standard 64 + 40 pins connector
- **Standard:** ANSI 878.1 Token Passing Protocol
- **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