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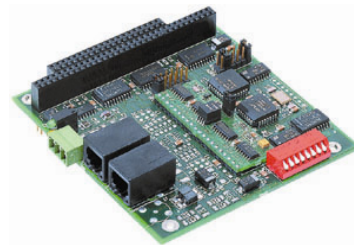
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The Contemporary Controls PC10420 Series Provides Successful Deployment in Industrial Applications

The PC10420 Features the ARCNET® Controller COM20020 and Allows Various Parameter Settings

Downers Grove, Illinois (March 29, 2007) — “The Contemporary Controls PC10420 Series of ARCNET Network Interface Modules (NIMs) continues to provide successful deployment in industrial applications,” says Joe Stasiak, Sales Manager for Contemporary Controls. “Designed to operate with PC/104 compatible computers, the PC10420 Series features the ARCNET controller COM20020 by SMC for various parameter settings.”

Performance and integration enhancements include command chaining operation and an internal 2K x 8 RAM buffer. Bus contention problems are reduced since the module only needs an I/O address. Various data rates range up to 5 Mbps, and there is no requirement for wait-state arbitration.



The temperature range in operation is 0°C to +60°C, for storage: -40° to +85°. All models require a +5 V power supply, typically supplying 200 mA. Dipulse models require a -12 V power supply supplying 50 mA or less. Dimensions are 3.55” x 3.775” (90 mm x 95 mm).

Each PC10420 has two LEDs on the board for monitoring network operation and providing bus access. The green LED indicates that the module is receiving data on the network, and the yellow LED indicates bus access to the module. This product also has an external 8-bit DIP switch so that node addresses can be easily reassigned without removing the module.

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This device is available in several transceiver options each matching a particular cable type. The capabilities of each transceiver differ. The PC10420-CXS accommodates coaxial star configurations for connecting to active or passive hubs. The PC10420-CXB supports a coaxial bus configuration usually without hubs.

Other models are the PC10420-FOG which supports multimode fiber optic cable with either ST or SMA connectors. The PC10420-TPB supports two-pair bus cabling using RJ-11 connectors.

The PC10420-485D supports the EIA-485 DC-coupled cabling standard while the PC10420-485X provides transformer-coupled EIA-485 operation. If the software driver you intend to use sets the COM20020 into backplane mode, you will need to use the PC10420-485 version. The AC-coupled EIA-485 transceiver offers certain advantages. No bias adjustments are necessary since each transceiver has its own fixed bias network isolated by a pulse transformer. DC-coupled technology, however, offers longer distances and will operate over all six data rates.

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