

Anybus CompactCom M40 Module BACnet/IP

The Anybus CompactCom M40 for BACnet/IP is a complete communication module which enables your products to communicate on an BACnet/IP network. The module supports fast communication speeds, making it suitable also for high-end industrial devices used within Building Automation.



INTERCHANGEABLE WITH OTHER NETWORKS



By implementing the CompactCom concept into your product line, you will have instant access to any other industrial network by simply plugging in another Anybus module.

GET REAL-TIME ETHERNET/IP COMMUNICATION

The Anybus CompactCom M40 enables fast communication between your device and BACnet/IP. The module supports generic device profiles and comes with a dual port switch implemented in the network processor — the award-winning Anybus NP40. With its fast data transfer and very low latency, it's the perfect match for even the most demanding industrial applications.

Features and benefits

- A complete, interchangeable communication module with connectors
- Short in-design with free assistance from HMS ensures a fast time to market
- Pre-certified for BACnet/IP compliance, version 1.14 (enables faster network certification)
- Very low latency
- Event-based interface method enables easy access to input and output data at any time
- Fast, event-based application hardware interfaces: 8/16-bit parallel and highspeed SPI. I/O (shift register interface) is also available.
- IIoT ready: Includes Email Client, Web server with customizable content, SSI functionality and FTP server
- Extended flash-based file system with two-disc access (internal and external)
- Security: Mandatory software signatures prevent unauthorized software to be downloaded to the module. Furthermore, encryption is used to prevent illicit copying.
- Achilles Storm Pre-tested

BACnet/IP Slave interface

- Full Support for B-ASC (BACnet Application Specific Controller)
- Alarm and Event Mechanisms
- Data Sharing with updates on data changes
- Device Management Support
- Security: Achilles Storm Tested
- Support for the BOOL1 and the BIT1 data type (translated to Binary Value Objects)
- Possible to do explicit padding of process data with the PADx data types
- Support for the Network Time attribute in the Anybus object
- Support for the Anybus file system interface object
- 2x RJ-45 BACnet/IP 100 Mbit/s ports available simultaneously

Technical specifications

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| Dimensions (LxWxH) | 52 x 50 x 22 mm 51 x 37 x 16 mm (without housing) |
| Operating temperature | -40 to +70 °C -40 to +85 °C (without housing) |
| Power requirements | 3.3 VDC, +/- 0.15 VDC |
| Application Interface | 8/16-bit parallel (30 ns access) High speed SPI, baudrate configurable up to 20 MHz I/O (shift register interface, cyclical update time 82 µs) UART (for backwards compatibility with 30-series, max 625kbps) |
| Profile support | Generic device |
| Ethernet features | Transparent socket interface Support of HTTP forwarding via socket interface Integrated 2-port switch IT functions (FTP server, E-mail client, web server with JSON and SSI support) |
| Internal file system | Configurable up to 28 MB Two discs are available: One internal (28 MB capacity), and one reserved for accessing the application file system (capacity determined by application). |
| LED indicators | Integrated on front (with housing), via application interface (without housing). Indicates Module Status and Network Status. |
| Connectors | 2x RJ45 100 Mbit/s |
| Galvanic isolation | YES |
| Mechanical rating | IP20, NEMA rating 1 |
| Mounting | PCB mounting via a customized CompactFlash connector available from HMS |
| Certifications | CE, cULus, RoHS |