

Anybus CompactCom M40 Module EtherNet/IP





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

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 EtherNet/IP. The module supports generic device profiles and has Black Channel support allowing for CIP safety implementation. It also 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
- ODVA pre-certified for network compliance (enables faster network certification)
- Fast data transfer: Up to 1448 bytes of process data in each direction, Up to 1500 bytes of explicit messaging
- 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.
- Black channel support enables CIP safety implementation.
- 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)
- Transparent Socket Interface handling the complete Ethernet frame (support for 20 socket connections).
- Solid security: Mandatory software signatures prevent unauthorized software to be downloaded to the module. Furthermore, encryption is used to prevent illicit copying.

EtherNet/IP Adapter/Slave interface

- EtherNet/IP CONFORMANCE TESTED™ by ODVA
- Support for Generic Device profile
- Dual port cut-through switch implemented in the Anybus NP40 processor
- Device Level Ring (DLR) Beacon-based
- Support QuickConnect Class B
- CIP energy object support
- Support for CIP Safety (via the black channel to the IXXAT Safe T100 Module)
- Customized identity information
- Explicit messaging up to 1500 using Large Forward Open
- Multiple I/O assembly support
- Modular device support
- 2x RJ-45 EtherNet/IP 100 Mbit/s ports available simultaneously



Technical specifications

Dimensions (L•W•H)	52 x 50 x 22 mm
Difficusions (E-W-11)	
	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
	foraccessing 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