

Anybus CompactCom M40 Module Powerlink

The Anybus CompactCom M40 for Powerlink is a complete communication module which enables your products to communicate on an Powerlink 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 powerlink COMMUNICATION

The Anybus CompactCom M40 enables fast communication between your device and the Powerlink network. The module comes with an integrated Ethernet hub implemented in the module's NP40 chip and supports multiplexing and PollResponse Chaining. It has a response time of 1µs (time from PollRequest to PollResponse) and a synchronization jitter of max. 1µs.

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 network compliance (enables faster network certification)
- Fast data transfer: Up to 1490 bytes of process data in each direction
- Very low process data 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)
- 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.

Powerlink Slave interface

- Supports Ethernet POWERLINK V2.0 Draft Standard Proposal version 1.1.7
- Pre-conformance tested
- Dual port cut-through switch implemented in the Anybus NP40 processor
- Integrated hub
- Supports ring redundancy
- Customizable Identity Information
- Supports 1 TPDO and 1 RPDO (Each can hold 1490 bytes)
- Up to 57343 ADIs
- Adaptable XDD file included
- Supports segmented SDO transfer
- PollResponseChaining
- Multiplexing

Technical specifications

Dimensions (L•W•H)	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 Hub 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