

Anybus CompactCom M40 Module Modbus TCP

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

The Anybus CompactCom M40 enables fast communication between your device and the Modbus TCP network. 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 network compliance (enables faster network certification)
- Fast data transfer: Up to 1536 bytes of I/O data in each direction
- 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)
- 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.

Modbus TCP Server interface

- Supports Modbus-TCP server/slave (up to 4 simultaneous connections)
- Pre-conformance supporting Modbus TCP V3.0
- Dual port cut-through switch implemented in the Anybus NP40 processor
- Customizable Identity Information
- JSON functionality
- Supports Modbus function codes: 01, 02, 03, 04, 05, 06, 15, 16, 23, 43/14
- 2x RJ-45 Modbus TCP 100 Mbit/s ports available simultaneously

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 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