

Anybus CompactCom M40 Module PROFIBUS



The Anybus CompactCom M40 for PROFIBUS is a complete communication module including connectors which enables your products to communicate on an PROFIBUS network.

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.

PROVEN AND TRUSTED

The M40 PROFIBUS module handles data lengths up to 488 bytes (244 bytes input and 244 output) and supports both PROFIBUS DP-V0 and DP-V1 according to IEC61158 type 3. The PROFIBUS network implementation is made directly into the CompactCom network processor — the award-winning Anybus NP40, with its fast data transfer and very low latency, making it 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
- PNO pre-certified for network compliance (enables faster network certification)
- Fast data transfer: Up to 244 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.
- Solid security: Mandatory software signatures prevent unauthorized software to be downloaded to the module. Furthermore, encryption is used to prevent illicit copying.

PROFIBUS Slave interface

- Supports PROFIBUS DPV1 functionality
- Automatic baud rate detection
- Generic and PROFIBUS specific diagnostic support
- User Parameterization Data support
- Set Slave Address support
- ADI access via DP-V1 read/write services
- Max 244 bytes Input and 244 bytes Output data
- Device identity customization
- Generic GSD file provided
- Support for Modular Device Mode
- 1x 9-pin D-SUB female connector to PROFIBUS

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
LED indicators	Integrated on front (with housing), via application interface (without housing). Indicates Module Status and Network Status.
Fieldbus Connectors	See above network interface details
Galvanic isolation	YES
Mechanical rating	IP20, NEMA rating 1
Mounting	PCB mounting via a customized CompactFlash connector available from HMS
Certifications	CE, cULus, RoHS