

Anybus CompactCom M40 Module DeviceNet



DeviceNet™

The Anybus CompactCom M40 for DeviceNet is a complete communication module including connectors which enables your products to communicate on an DeviceNet 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 DeviceNet module handles data lengths up to 512 bytes in both directions and supports both modular device profiles and energy profiles on DeviceNet. The DeviceNet network implementation is made directly into the CompactCom 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 512 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.

DeviceNet Adapter/Slave interface

- DeviceNet CONFORMANCE TESTED™ by ODVA
- Max 512 bytes of Input and 512 bytes of Output data
- Support QuickConnect Class B
- CIP Parameter Object Support: Explicit messaging, UCMM Capable, Bit-strobed I/O, Change-of-state / Cyclic I/O, Polled I/O
- Expansion possibilities via CIP forwarding
- Customizable Identity object
- Automatic Baud Rate Detection
- Modular Device functionality
- 1x 5.08 pluggable connector to DeviceNet

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