

Anybus CompactCom M40 Module - PROFINET-IRT

The Anybus CompactCom M40 for PROFINET is a complete communication module which enables your products to communicate on a PROFINET-RT OR IRT 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 PROFINET-IRT COMMUNICATION

The Anybus CompactCom M40 enables fast communication between your device and a PROFINET. The module supports generic device profiles, PROFIenergy and a black channel interface for PROFI-safe implementation. In addition, it 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.

[Datasheet](#)[File download](#)

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 1440 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

Optical fiber versions available with or without housing

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.

PROFINET Device interface

- Supports PROFINET-RT and IRT functionality spec.2.3
- Pre-conformance supporting Class A, B and C
- Dual port cut-through switch implemented in the Anybus NP40 processor
- Up to two APIs (including API 0) enabling profile implementations
- Up to 64 modules, 8 submodules each (up to 128 submodules in total)
- Up to 32767 ADIs
- Generic and PROFINET specific diagnostic support
- Device identity customization
- Supports PROFINET Fast Start Up
- Supports PROFIenergy profile V 1.1
- Support for PROFIsafe (via the black channel to the IXXAT Safe T100 Module)
- Supports Media Redundancy Protocol (MRP)
- 2x RJ-45 PROFINET 100 Mbit/s ports available simultaneously
- Optical fiber version available with 2x FO connectors

Transparent Ethernet

New versions in the Anybus CompactCom 40 Ethernet series gives you complete freedom implementing IT functions in your application

- Get full control over IT functionality and IT protocols
- Freedom to create and integrate your own IIoT solutions
- Separates the real-time protocol data from the other Ethernet data

[→ Read more](#)

Technical specifications

Dimensions (L•W•H)	52 x 50 x 22 mm or 2,04 x 1,97 x 0,86" 51 x 37 x 16 mm or 2,01 x 1,46 x 0,63" (without housing)
Operating temperature	-40 to +70 °C or -40 to +158 °F -40 to +85 °C or -40 to +185 °F (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, cUL _{US} , RoHS

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Ordering information

Purchasing instructions and terms and conditions: [↪ How to buy](#)

All versions available with or without housing. Additional versions for Transparent Ethernet and versions with available with Fiber Optic or M12 connectors for IP rating up to IP67.

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ORDER CODE	AB6606 - M40 PROFINET F.Optic Module	
ORDER CODE	AB6706 - M40 PROFINET F.Optic Module Without Housing	
ORDER CODE	AB6635 - M40 PROFINET Module (Transparent Ethernet)	
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ORDER CODE	AB6636 - M40 PROFINET F.Optic Module (Transparent Ethernet)	
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ORDER CODE	AB6642 - M40 PROFINET Module M12	

ORDER CODE **AB6742** - M40 PROFINET Module M12 Without Housing



ORDER CODE **SP1137** - CompactCom Host Connector (*Optional accessory*)



Related products



Anybus CompactCom
M40 Module -
Common Ethernet



Anybus CompactCom
B40 Brick - PROFINET-
IRT

More Anybus CompactCom

- [Get started with your In-design - Purchase a CompactCom Starterkit](#)
- [See how easy you can update your CompactCom with the Firmware Manager](#)
- [IXXAT SafeT100 Module for PROFI-safe implementation](#)

Form factors

The same Anybus CompactCom functionality irrespective if you choose a Chip, Brick or Module solution. Find out more!

[Anybus CompactCom Chip](#)

[Anybus CompactCom Brick](#)

[Anybus CompactCom Modules](#)

M40 module availability

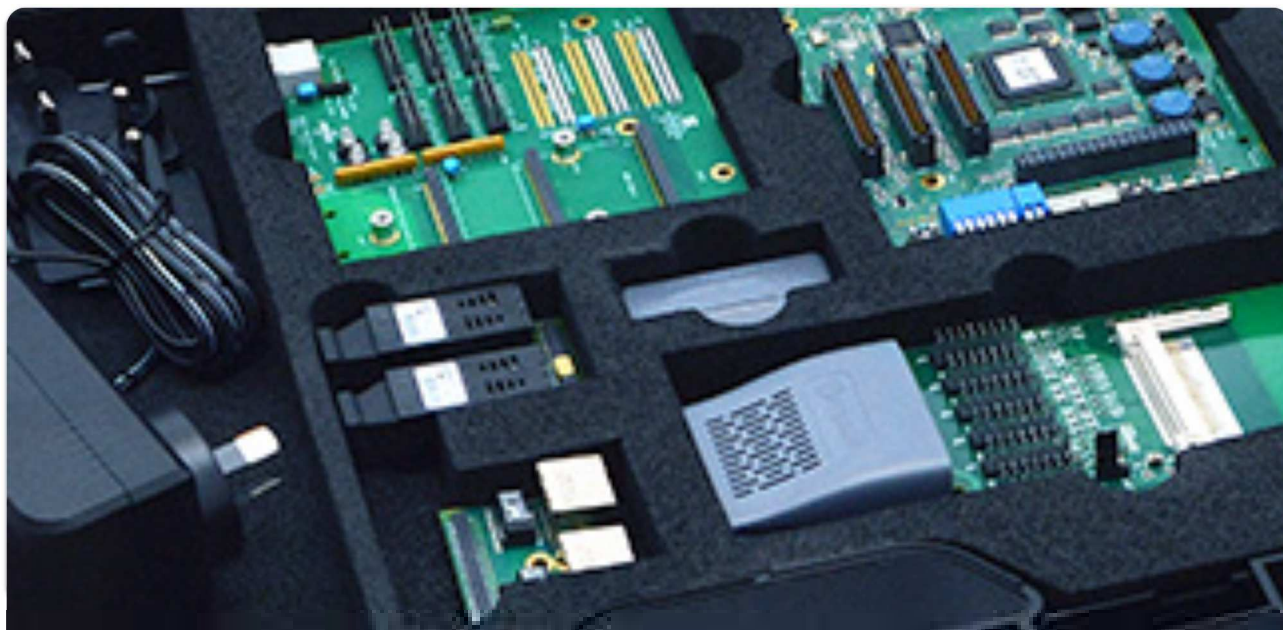
Need additional networks? No problem, just plug-in another CompactCom 40-series module

M40-SERIES INDUSTRIAL ETHERNET

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