

The Anybus CompactCom M40 for CC-Link IE Field is a complete communication module which enables your products to communicate on the CC-Link IE Field network. The module supports fast communication speeds, making it suitable also for high-end industrial devices.

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.



CC-Link IE Field

Why worry about networking?

Once you have implemented the Anybus CompactCom concept, you don't have to worry about network upgrades or certifications. HMS takes care of the network maintenance, so you can focus on your products.

If you need fast CC-Link IE Field communication

The Anybus CompactCom M40 enables fast communication between your device and the CC-Link IE Field 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

- Possibility to implement any specific CC-Link IE Field device profile
- A complete, interchangeable communication module with connectors
- Short in-design with free assistance from HMS ensures a fast time to market
- CLPA pre-certified for network compliance (enables faster network certification)
- Up to 1536 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.
- Seamless Message Protocol (SLMP) server supported.

CompactCom 40-series

The M40 is part of the Anybus CompactCom 40-series — communication products in chip, brick and module formats. (CC-Link IE Field only available in Module and Brick). The 40-series is especially suitable for modern and demanding industrial applications.



Innovative mounting

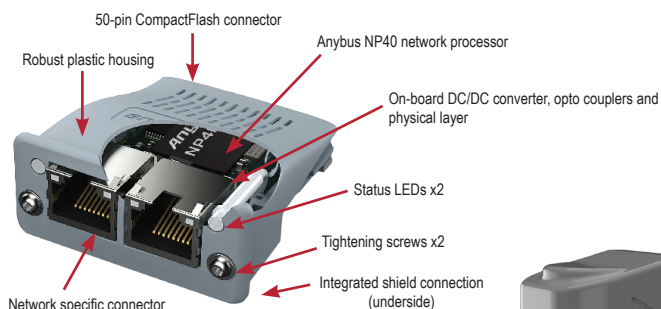
The Anybus module plugs into a CompactFlash™ connector which is integrated onto the host PCB. HMS offers a CompactFlash connector specifically tailored for the CompactCom module.



Technical specifications

Technical Details	
Dimensions (L • W • H)	52•50•22 mm, 2.04•1.97•0.86" 51•37•16 mm, 2.01•4.46•0.63" (modules without housing)
Protection class	IP20
RoHS Compliance	Yes
Galvanically isolated network interface	Yes
Application interfaces	- 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.
Connectors	2x RJ45 1 GBit/s
LED indicator	Integrated on front (with housing), via application interface (without housing). Indicates Module Status and Network Status.
Certifications	
CE, CULUS, RoHS	Yes
Network conformance	Yes (including approved Gbit test)
CE - Declaration of Pre-Conformity	
Emission EN 61000-6-4	EN55016-2-3 Radiated emission EN55022 Conducted emission
Immunity EN 61000-6-2	EN61000-4-2 Electrostatic discharge, EN61000-4-3 Radiated immunity. EN61000-4-4 Fast transients/burst, EN61000-4-5 Surge immunity. EN61000-4-6 Conducted immunity.
Electrical Characteristics	
Power requirements	3.3 VDC, +/- 0.15 VDC
Environmental Characteristics	
Operating temp	-40 to 70 °C, -40-158 °F -40 to 85 °C, -40-176 °F (modules without housing)
Humidity	5-95 % non-condensing

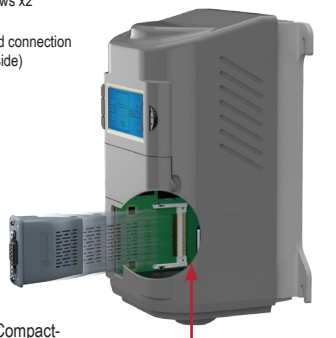
CC-Link IE Field-specific technical highlights
CC-Link IE Field Network intelligent device station
Dual port cut-through switch implemented in the Anybus NP40 processor
Configuration file (CSP+) provided by HMS
Possibility to customize Vendor Code, Model Code and Version via application interface
Network Number and Station Number configuration via application interface
Transient server functionality supported enabling acyclic data exchange.



Module mounting

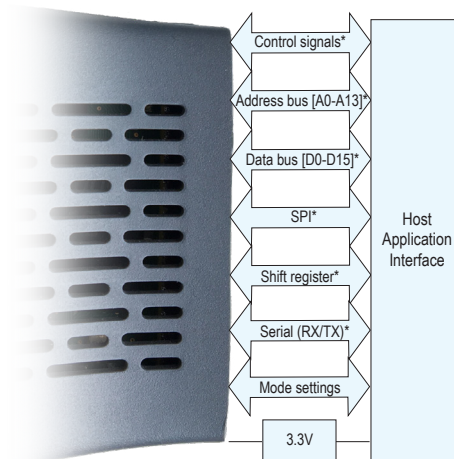
The CompactCom module slides into a pre-designated slot in the host automation device PCB. The module is secured with an innovative mechanism by tightening the two screws located on the front cover of the CompactCom module.

HMS offers a customized CompactFlash connector for Anybus CompactCom. The module insertion can be made at any stage in the logistical chain between the automation device manufacturer and the end customer. CompactCom slot cover available on request from HMS.



Anybus slot and 50-pin CompactFlash connector on the PCB of the host device

Block diagram



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