# CompactCom™ M40 for CC-Link

The Anybus CompactCom M40 for CC-Link is a complete communication module which enables your products to communicate on a CC-Link network.

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

## 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.

## Proven and trusted communication solution for CC-Link

The Anybus CompactCom M40 enables communication between your device and CC-Link. The module handles data lengths up to 896 bit points and 128 word points of 16 bit data and supports both CC-Link v1.10 and v2.00.

## Features and benefits for the CompactCom 40-series

- A complete, interchangeable communication module with connectors.
- Short in-design with free assistance from HMS ensures a fast time to market.
- Support for CC-Link v 1.10 and v 2.00.
- Pre-certified for network compliance (enables faster network certification).
- Low 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 high speed SPI. I/O (shift register interface) is also available.
- Firmware management tool enables easy download via serial connection.
- Solid security: Mandatory software signatures prevent unauthorized software to be downloaded to the module. Furthermore, encryption is used to prevent illicit copying.

## CompactCom 40-series

The M40 is part of the Anybus CompactCom 40-series — communication products in chip, brick and module formats. These are all built on the Anybus NP40 processor making them 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.

## Best-in-class processor

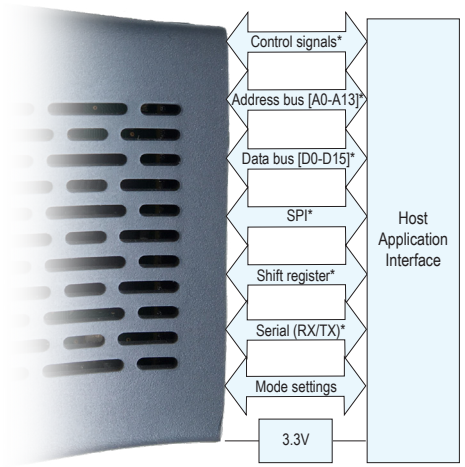
The M40 is equipped with the best network processor on the market according to independent analyst firm Frost & Sullivan.

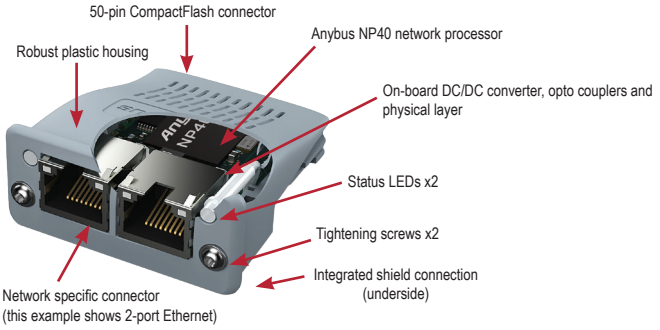
# Technical specifications

| Technical Details | |
|---|---|
| Dimensions (L • W • H) | 52•50•22 mm, 2.04•1.97•0.86"<br>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)<br>- High speed SPI, baudrate configurable up to 20 MHz<br>- I/O (shift register interface, cyclical update time 82 µs)<br>- UART (for backwards compatibility with 30-series, max 625kbps) |
| Profile support | Generic Device. |
| LED indicator | Integrated on front (with housing), via application interface (without housing). Indicates Run and Error. |
| **Certifications** | |
| UL, cUL | Yes |
| Network conformance | Yes |
| **CE - Declaration of Pre-Conformity** | |
| Emission EN 61000-6-4 | EN55016-2-3 Radiated emission<br>EN55022 Conducted emission |
| Immunity EN 61000-6-2 | EN61000-4-2 Electrostatic discharge, EN61000-4-3 Radiated immunity.<br>EN61000-4-4 Fast transients/burst, EN61000-4-5 Surge immunity.<br>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<br>-40 to 85 °C, -40-176 °F (modules without housing) |
| Humidity | 5-95 % non-condensing |

| CC-Link-specific technical highlights |
|---|
| **CC-Link Remote Device** |
| **I/O for CC-Link v.1.10 (default):**<br>**Up to 128 bit points and 16 word points of 16 bit data** |
| **I/O for CC-Link v.2.00:**<br>**Up to 896 bit points and 128 word points of 16 bit data** |
| **Automatic CC-Link System Area handshaking (optional)** |
| **Possibility to customize Vendor Code, Model Code and Version via application interface** |
| **Baud Rate and Station Number configuration via application interface** |
| **Galvanically isolated bus** |

**Block diagram**




### 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





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