



# Anybus CompactCom B40 Brick - Common Ethernet



The Anybus CompactCom B40 for Common Ethernet enables fast communication between your device and several industrial Ethernet networks (PROFINET, EtherCAT, EtherNet/IP, Modbus TCP, Powerlink and BACnet/IP). You use the same hardware for all networks and simply download the firmware needed for a specific network.

## GET REAL-TIME INDUSTRIAL ETHERNET COMMUNICATION

The Anybus CompactCom B40 enables fast communication between your device and your chosen Ethernet 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

- A ready-made Industrial Ethernet connectivity solution
- Flexibility to add your own connectors and peripherals to limit size and costs
- One hardware platform for all Ethernet versions. Simply download new firmware to enable communication with another network
- Easy mounting to your host PCB design
- Short in-design with free assistance from HMS ensures a fast time to market
- Pre-certified for network compliance for all networks (enables faster network certification)
- Fast data transfer: Up to 1500 bytes of process data in each direction, Up to 1500 bytes of explicit messaging
- 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 (network specific)
- 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.

## Technical specifications

<b>Dimensions (L•W•H)</b>	36 x 36 x 8 mm or 1,41 x 1,41 x 0,31"
<b>Operating temperature</b>	-40 to +85 °C or -40 to +185 °F
<b>Power requirements</b>	3.3 VDC, +/- 0.15 VDC
<b>Application Interface</b>	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)	
<b>Profile support</b>	Generic device	
<b>Ethernet features</b>	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)	
<b>Internal file system</b>	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).	
<b>LED indicators</b>	Available via host connector - Indicates Module Status and Network Status.	
<b>Connectors</b>	No: Add your own connectors (RJ45, F.Optic) - YES: via B40 connector board	
<b>Galvanic isolation</b>	No: Add your own isolation - YES: via B40 connector board	
<b>Mechanical rating</b>	IP20, NEMA rating 1	
<b>Mounting</b>	PCB fastening via B40 connector boards available from HMS	
<b>Certifications</b>	CE, CULUS, RoHS	

File	Version	Size	Read online
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## Ordering Information

The Common Ethernet Brick is delivered without network protocols but other functionality is supported. For each network, there is a license fee, please contact HMS for more information.

<b>Order Code</b>	AB6680
<b>Included components</b>	B40 Common Ethernet Brick
<b>Optional Accessories</b>	AB6774 (Transparent Ethernet): Common Ethernet Brick <a href="#">AB6666</a> : Connector Board for Ethernet

1 year guarantee. For purchasing instructions and terms and conditions, see: [How to buy](#)