

Anybus CompactCom 40 Brick Mini – EtherCAT

Item number: AB6102-B

The Anybus CompactCom 40 Brick Mini EtherCAT is a communication interface that can be embedded into any industrial device or machine to enable communication with EtherCAT networks. Soldered directly onto the host's carrier board and delivered in a tape-and-reel format, it's ideal for automated manufacturing and high-volume production.



Enable communication between industrial devices and EtherCAT networks

Features and benefits

- ✓ **High performance**
Powered by the award-winning NP40 network processor, the Anybus CompactCom guarantees fast data transfer and low latency, making it ideal for the most demanding industrial applications.
- ✓ **Size matters**
Measuring just 36,4 x 27 x ≤3mm, its compact format is ideal for small industrial devices. The rectangular shape is the preferred choice for device makers.
- ✓ **Pre-certified**
Pre-certified for EtherCAT network compliance, enabling faster network certification.
- ✓ **Black channel (Safety) interface**
The black channel interface enables device manufacturers to easily connect a safety module, such as the Ixxat T100, to the CompactCom. This feature provides a straightforward way to integrate safety functionality into your device.
- ✓ **Quick time to market**
HMS provides comprehensive support throughout the integration journey, ensuring a quick time to market.
- ✓ **Minimizes add-on component costs**
The soldered-on design eliminates the need for additional components like socket headers, reducing both component costs and manual manufacturing steps.
- ✓ **Optimized for automation**
Delivery on tape and reel facilitates automated assembly, ideal for high-volume device manufacturers.
- ✓ **Future proof performance**
Fully equipped for Ethernet networks, currently supporting Mb speeds (Gb available upon request), modern IT functions, Transparent Ethernet (RMII), and more. Continuously maintained to align with the latest network protocol specifications.
- ✓ **Fully embedded – meet IP requirements**
The brick is fully embedded within your product, conserving valuable space, and allows you to use your own network connectors with IP class-certified protection if required.
- ✓ **Life cycle management**
HMS maintains every part of the Anybus CompactCom, including network firmware updates, throughout the product's lifecycle.



General

Net Weight (g)	4
Packed Width (mm)	12
Packed Height (mm)	2
Packed Depth (mm)	8
Packed Weight (g)	6
Operating Temperature °C Min	-40
Operating Temperature °C Max	85
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Class (CompactCom series)	B
Current Consumption Max value at Vcc nom (mA)	up to 500 mA
Input Voltage (V)	3.3 VDC, +/- 0.15 VDC
Application Interface	High speed SPI (baudrate configurable up to 20 MHz), UART (for backwards compatibility with 30-series, max 625kbps)
Content of Delivery	Anybus CompactCom 40 Brick Mini
Mounting	PCB surface mount (soldered)
Warranty (years)	1 year

Identification and Status

Product ID	AB6102-B
Country of Origin	Sweden
HS Code	8517620000



Identification and Status

Dual Usage	No
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Physical Features

Form Factor	Brick (soldered on)
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Contains Battery	No
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EtherCAT Features

EtherCAT Mode	CANopen over EtherCAT
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EtherCAT Supported Functionality

DS301 compliant. EMCY support. Ethernet over EtherCAT (EoE). File access over EtherCAT (FoE). Support for Sync0 functionality using distributed clocks. Web server with customizable content. FTP server. E-mail client. Server Side Include (SSI) functionality. JSON functionality.

EtherCAT Configuration File	ESI available
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EtherCAT Bandwidth	100 Mbit/s
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EtherCAT Input Data Size	1486 bytes
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EtherCAT Output Data Size	1486 bytes
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Certifications and Standards

RoHS Compliant	Yes
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Product Certifications	RoHS, UL
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UL Information	E214107
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Use Case

