

## Anybus CompactCom 40 Module EtherCAT - Transparent Ethernet

Item number: AB6639-E

The Anybus CompactCom 40 EtherNet/IP - Transparent Ethernet is a communication interface that can be embedded into any industrial device or machine to enable communication with EtherCAT networks. The Transparent Ethernet channel lets you utilize high-end processors for custom IT functions. The module includes connectors for a fast time to market.



*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.
- ✓ **Quick time to market**  
HMS provides comprehensive support throughout the integration journey, ensuring a quick time to market.
- ✓ **Life cycle management**  
HMS maintains every part of the Anybus CompactCom, including network updates, throughout the product's lifecycle.
- ✓ **Easy to install**  
Installing the Anybus CompactCom module is a breeze—simply slide it into the host slot. This user-friendly process can be completed by the end-user.
- ✓ **Transparent Ethernet channel**  
Includes a Transparent Ethernet channel, allowing users to tap into the potential of their high-end processors for developing personalized IT functions.
- ✓ **Versatile Event-Based Hardware Interfaces**  
Enjoy fast and flexible event-based application hardware interfaces with the option to choose from 8/16-bit parallel or high-speed SPI, and I/O via the shift register interface.
- ✓ **ETG pre-certified**  
Pre-certified with ETG for network compliance, enabling faster network certification.
- ✓ **Complete communication interface**  
The Anybus CompactCom module is a complete communication interface, equipped with connectors that simplify integration. Enjoy an all-in-one solution with easy interchangeability.
- ✓ **Robust Security Measures**  
Mandatory software signatures prevent unauthorized downloads to the Anybus CompactCom, while robust encryption techniques safeguard against illicit copying.
- ✓ **Supports hardware changes**  
Possible to swap or install late in the manufacturing process.

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## General

Net Width (mm)	50
Net Height (mm)	22
Net Depth (mm)	52
Net Weight (g)	29
Packed Weight (g)	29
Operating Temperature °C Min	-40
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Class (CompactCom series)	B
Input Voltage (V)	3.3 VDC, +/- 0.15 VDC
Application Interface	Parallel 8/16-bit (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)
Isolation	Galvanic Isolation
Content of Delivery	CompactCom M40 module
Mounting	PCB mounting via a customized CompactFlash connector
Warranty (years)	1 year

## Identification and Status

Product ID	AB6639-E
Successor	AB6639-C, AB6639-D
Country of Origin	Sweden

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## Identification and Status

HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

## Physical Features

Connectors / Input / Output	2x RJ45
LED Indicators	Integrated on front. Indicates Module Status, Network Status and Link/Activity.
Form Factor	Module
Contains Battery	No

## EtherCAT Features

EtherCAT Mode	CANopen over EtherCAT
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
EtherCAT Bandwidth	100 Mbit/s
EtherCAT Input Data Size	1486 bytes
EtherCAT Output Data Size	1486 bytes

## Certifications and Standards

RoHS Compliant	Yes
UL Information	E214107