# Anybus CompactCom 40 Module EtherCAT - Transparent Ethernet




*Enable communication between industrial devices and EtherCAT networks*

**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.

## 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 |
| **Current Consumption Max value at Vcc nom (mA)** | up to 500 mA |
| **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 50 MHz). 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 |
| **Predecessor** | AB6639-C, AB6639-D |

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## Identification and Status

| | |
|---|---|
| **Country of Origin** | Sweden |
| **HS Code** | 8517620000 |
| **Dual Usage** | No |
| **Export Control Classification Number (ECCN) (Applies only to the U.S)** | EAR99 |

## Physical Features

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|---|---|
| **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 |