Anybus CompactCom 40 Brick POWERLINK



Enable communication between industrial devices and POWERLINK networks

Item number: AB6681-D

The Anybus CompactCom 40 POWERLINK is a communication interface that can be embedded into any industrial device or machine to enable communication with POWERLINK networks. The pluggable design enables integration late in the assembly process, the addition of specific network connectors, and compliance with protection class requirements.

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.
- **Fully embedded – meet IP requirements**
  The brick can be fully embedded within your product, conserving valuable space, and enabling you to provide IP class-certified protection.
- **Supports hardware changes**
  Possible to swap or install late in the manufacturing process.
- **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.
- **Pre-certified**
  Pre-certified for network compliance, enabling faster network certification.
- **Design flexibility**
  Add your own connectors and peripherals, offering design flexibility that matches your unique needs.
- **Robust Security Measures**
  Mandatory software signatures prevent unauthorized downloads to the Anybus CompactCom, while robust encryption techniques safeguard against illicit copying.

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General

Related Accessories	AB6666-B
Net Width (mm)	36
Net Height (mm)	8
Net Depth (mm)	36
Net Weight (g)	23
Packed Width (mm)	8
Packed Height (mm)	3
Packed Depth (mm)	7
Packed Weight (g)	25
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	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).
Content of Delivery	CompactCom B40 module
Mounting	PCB mounting via pin header

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General

Warranty (years)	1 year

Identification and Status

Product ID	AB6681-D
Predecessor	AB6681-C
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN) (Applies only to the U.S)	EAR99

Physical Features

Form Factor	Brick (pluggable)
Contains Battery	No

POWERLINK Features

POWERLINK Mode	Generic device
POWERLINK Supported Functionality	Ethernet POWERLINK V2.0 Communication Profile Specification version 1.3.0 (Controlled Node, CN). Integrated hub. Web server w. customizable content. FTP server. Email client. Server Side Include (SSI) functionality. JSON functionality. Transparent Socket Interface. Supports ring redundancy. Supports segmented SDO transfer. PollResponse Chaining. Multiplexing. Support for Dynamic Node Allocation (DNA).
POWERLINK Configuration File	XDD available
POWERLINK Bandwidth	100 Mbit/s half duplex
POWERLINK Input Data Size	1490 bytes
POWERLINK Output Data Size	1490 bytes

Certifications and Standards

RoHS Compliant	Yes
UL Information	E214107