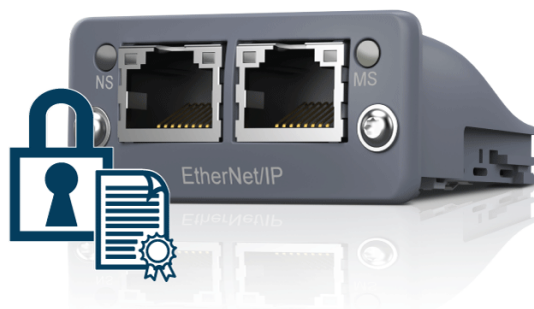
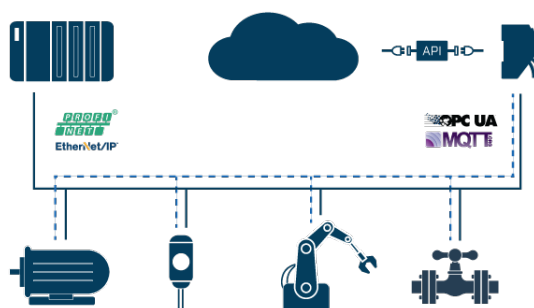


Anybus CompactCom 40 Ethernet products are available in a version that is able to communicate with IoT protocols such as OPC UA and MQTT. This means that industrial Ethernet protocol data (for example PROFINET or EtherNet/IP) is processed as usual by the CompactCom — and data from the device can also be sent to an IT system via OPC UA or MQTT.



Give your industrial devices IIoT capability

With OPC UA or MQTT communication on the factory floor, it is possible to use a computer, server or edge gateway to relay information to IT systems and clouds.



Features and benefits

OPC UA features

The Anybus CompactCom implements an OPC UA server which models the Anybus CompactCom as a device in its address space, using the OPC UA Device Integration (DI) model. The application will enable the OPC UA functionality where the ADIs (application parameters) are readable as variable nodes through OPC UA. The modelled device is of type CompactCom40DeviceType which is a subtype of the OPC UA DeviceType.

- Support for micro-embedded profile
- Supports Discovery Services
- User name and password authentication
- Supports DataChange Subscription
- Timestamp supported via discovery server or time protocol of the industrial network
- OPC UA extension to all standard

MQTT features

The Anybus CompactCom acts as a publisher on the network using data from the host application. The data can be encoded using Json encoding with time stamp. Alternatively transparent transfer of the data is supported. Data is tagged with a topic string by the producing client (handled from the host application or the CompactCom module). The topics can be subscribed to by one or several clients from the broker.

- MQTT client acting as publisher
- MQTT version 3.1.1
- Json data encoding with Time stamp
- Transparent transfer supported
- Last Will and QoS 0-2 supported
- User name and password authentication
- Maximum 4K data from host application (maximum 8K on network including Json encoding).

Security platform

- Secure boot checks product integrity
- Certificate management and provisioning enable proper device authentication and authorization
- Data sent to the cloud level is encrypted using OPC UA Secure Channels
- Secure access and file transfer over TLS using HTTPS and WebDAV
- Security chip strengthens the integrity and identity of the product
- Availability of security functionality for Profinet is planned from Q2 2020.

Availability



Technical specifications

Dimensions (L • W • H)	52•50•22 mm, 2.04•1.97•0.86" 51•37•16 mm, 2.01•4.46•0.63" (modules without housing)
Protection class	IP20
RoHS Compliance	Yes
Galvanically isolated network interface	Yes
Application interfaces	- 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)
Industrial network profile support	Generic device
LED indicator	Integrated on front (only module with housing). Indicates Module Status and Network Status.
Certifications	UL, cUL
Network conformance	Yes
Emission EN 61000-6-4	EN55016-2-3 Radiated emission EN55022 Conducted emission
Immunity EN 61000-6-2	EN61000-4-2 Electrostatic discharge, EN61000-4-3 Radiated immunity. EN61000-4-4 Fast transients/burst, EN61000-4-5 Surge immunity. EN61000-4-6 Conducted immunity.
Power requirements	3.3 VDC, +/- 0.15 VDC
Operating temp	-40 to 70 oC, -40-158 oF -40 to 85 oC, -40-176 oF (modules without housing)
Humidity compatibility	5-95 % non-condensing

Article numbers

Module with housing	Profinet - AB6650 Ethernet/IP - AB6651
Module without housing	Profinet - AB6750 Ethernet/IP - AB6751
Brick	Profinet - AB6689 Ethernet/IP - AB6690

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