

Anybus Communicator – Modbus TCP Client to Common Ethernet

Item number: ABC3290-A

The Anybus Communicator Modbus TCP Client to Common Ethernet enables you to connect any device or equipment to PROFINET, EtherCAT, and EtherNet/IP control systems. Anybus Communicators ensure reliable, secure, and high-speed data transfers. The intuitive user interface makes them incredibly easy to use.



A protocol converter that connects Modbus TCP devices to Industrial Ethernet control systems

Features and benefits

- ✓ **High performance**
Powered by the award-winning NP40 network processor, it enables instant transfer of up to 1500 bytes (network dependent) between networks, totaling 3000 bytes.
- ✓ **Endian conversion**
The Communicator provides hardware-accelerated endian conversion (byte swap), saving processing time on the PLC.
- ✓ **Cybersecurity**
Despite advanced security, human error often causes breaches. Our Communicator's physical security switch can lock configurations and block web interface access, enhancing security.
- ✓ **Diagnostics**
The user interface displays real-time connection status and I/O data mapping for easy troubleshooting. Easily generate a support file containing all the necessary information.
- ✓ **Life cycle management**
HMS maintains every part of the Communicator, including network updates, throughout the product's lifecycle.
- ✓ **Instant data transfer**
Instant data transfer lets you take advantage of high-speed industrial networks.
- ✓ **Intuitive user interface**
Use the intuitive web-based user interface to easily configure the Communicator via the drag-and-drop functionality or to analyze live data and generate support packages.
- ✓ **Optimized hardware design**
The Communicator has forward-facing ports and is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.
- ✓ **5-year warranty**
Thanks to carefully selected industrial components the Communicator operates reliably in harsh environments, ensuring uptime and longevity. Our confidence in quality is reflected in a 5-year warranty.

Anybus Communicator – Modbus TCP Client to Common Ethernet



General	
Net Width (mm)	27
Net Height (mm)	144
Net Depth (mm)	98
Net Weight (g)	150
Packed Width (mm)	35
Packed Height (mm)	170
Packed Depth (mm)	115
Packed Weight (g)	185
Operating Temperature °C Min	-25
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Type Value at Vcc Nom (mA)	90mA @ 24V DC (2.2W)
Current Consumption Max value at Vcc nom (mA)	125mA @24V DC (3W)
Input Voltage (V)	12-30V DC
Power Connector	3-pin, 5.08 Phoenix plug connector
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	Yes

Anybus Communicator – Modbus TCP Client to Common Ethernet



General

Mounting	DIN-rail (EN 50022 standard)
Housing Materials	PC ABS, UL 94 VO
Packaging Material	Cardboard
Warranty (years)	5

Identification and Status

Product ID	ABC3290-A
Model Code	40-ETH-ETH-B
Predecessor	AB9000-B, AB9000-B-5PACK, AB9006-B, AB9006-B-5PACK, AB9007-B, AB9007-B-5PACK, A9008-B, AB9008-B-5PACK
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	5A991.b.1

Physical Features

Connectors / Input / Output	2xRJ45;2x RJ45;2xRJ45;RJ45 Config port
Push Buttons	Factory reset
DIP & Rotary Switches	Security lock switch
Contains Battery	No

EtherCAT Features

EtherCAT Mode	Slave / SubDevice
EtherCAT Supported Functionality	COE (Can Over EtherCAT); PDO, SDO; APRD, ARMW, APWR, BRD, BWR, FPRD, FPRW, FPWR, FRMW, LRD, LRW, LWR
EtherCAT Configuration File	ESI available
EtherCAT Bandwidth	10/100 Mbit down to 100us cycle time

Anybus Communicator – Modbus TCP Client to Common Ethernet



EtherCAT Features

EtherCAT Input Data Size	1486 bytes
EtherCAT Output Data Size	1486 bytes

EtherNet/IP Features

EtherNet/IP Mode	Adapter / Slave
EtherNet/IP Supported Functionality	Endian conversion (byte swap); QoS; Ethernet/IP Class 1 and 3; Quick Connect Class B; DLR (beacon mode); Daisy Chaining; CT19 ODVA Conformance
EtherNet/IP Configuration File	EDS available
EtherNet/IP Bandwidth	10/100MBit down to 1ms cycle time
EtherNet/IP Input Data Size	1448 bytes
EtherNet/IP Output Data Size	1448 bytes

Modbus-TCP Features

Modbus-TCP Mode	Master / Client;Slave / Server
Modbus-TCP Supported Functionality	Modbus specification V1.1B; Endian Conversion (Byte swap); LiveList; DataExchangeControl;Modbus specification V1.1b3; 4 connections; Daisy chaining
Modbus-TCP No. Of Servers	152 transactions / 64 connections
Modbus-TCP Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23, 43/14
Modbus-TCP Bandwidth	10/100 Mbit/s down to 10ms;10/100 Mbit/s
Modbus-TCP Input Data Size	1500 bytes
Modbus-TCP Output Data Size	1500 bytes

PROFINET Features

PROFINET Mode	Slave
PROFINET Supported Functionality	RT; Daisy chaining;
PROFINET Conformance Class	Class B
PROFINET Configuration File	GSDML available

Anybus Communicator – Modbus TCP Client to Common Ethernet



PROFINET Features

PROFINET Bandwidth	10/100MBit down to 1ms cycle time
PROFINET Input Data Size	1024 bytes
PROFINET Output Data Size	1024 bytes

Certifications and Standards

Protection Class IP	IP20
RoHS Compliant	Yes
Recycle / Disposal	Yes
CE	Yes
FCC	No
UL	Yes
UL Information	E214107: Ord.Loc UL 61010-1, CSA C22.2 No. 61010-1, UL 61010-2-201, CSA C22.2 No. 61010-2-201
ATEX	No
KC	Yes
EMC	Yes
Environment	EN 55016-2-3 Class A, EN 55032 Class A, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6
Waste Certification (WEEE)	Yes
WEEE Category	IT and telecommunications equipment