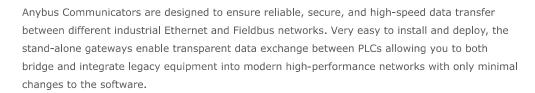


Anybus Communicator - Common Ethernet slave - Common Ethernet slave

The Anybus Communicator Common Ethernet - Common Ethernet is an industrial protocol gateway that allows you to seamlessly transfer data between PLC control systems over EtherNet/IP, Modbus TCP, and PROFINET networks. The Anybus Communicator Common Ethernet - Common Ethernet is pre-loaded for PROFINET IO-device - EtherNet/IP adapter networks but by updating the firmware the device supports combinations of Ethernet/IP, EtherCAT, Modbus TCP, and PROFINET networks.



Anybus Communicators are built using the award-winning and proven Anybus NP40 industrial network processor providing network conformance, high performance, and reliability. When connecting between PLCs on different networks, extremely fast data cycling is enabled with data transfer of up to 1500 bytes in each direction, meeting most current control application needs as well as supporting future demands.

Quick installation is ensured thanks to the intuitive configuration, easy-to-understand documentation, and smart hardware and housing design.



Excellent performance

- Instant data transfer The time it takes to transfer data between two PLCs consists of the cycle time on the first network plus the cycle time on the second network. Internal data transfer in the Communicators is negligible as it's in line with the natural variation of the network cycle times (jitter).
- Hardware-accelerated endian conversion (byte swap) The Communicators can change the data representation (endianness) through a
 hardware-accelerated endian conversion to ensure data is presented correctly in each PLC. You can even convert different parts of the
 data area in different ways to handle different data types. It has no impact on performance, offloads the PLC of the data conversion
 task, and simplifies PLC programming.

Easy to Use

Dedicated ethernet configuration port - no special cables required.
 ntuitive web-based drag and drop configuration interface - no need to install any additional software.
 orward-facing ports make it easy to connect cables and the slim form factor saves space on the DIN rail.

• Troubleshoot problems with powerful diagnostics including live data monitor, status screen, and support package.

Latest Security Features

- Secure boot functionality to detect tampering with firmware and resist attacks and infection from malware.
- Security switch which locks your configuration and prevents any unauthorized access.

Designed for industrial environments

- Robust compact housing.
- Industrial components are tested and certified according to CE and UL.
- Wide temperate range, -25°C to 70°C.
- DIN-rail mounting to enable installation close to connected devices, reducing the amount of wiring.



COMMON ETHERNET FEATURES

- Cover multiple protocols with a single gateway and reduce storage costs
- Supports EtherNet/IP, EtherCAT, Modbus TCP or PROFINET (Modbus TCP pre-loaded)
- Transfer 1 448 bytes with EtherNet/IP, 1486 bytes with EtherCAT, 1 500 bytes with Modbus TCP and 1 024 bytes with PROFINET to and from the gateway
- Download your protocol firmware from the product support page (free)
- Load your protocol firmware via the gateway web-configuration interface
- Dual RJ45 Ethernet ports with 10/100 Mbit full duplex
- Daisy chaining with integrated switch

TECHNICAL SPECIFICATIONS

GENERAL

Dimensions (L x W x H) with serial and power connector	98 x 27 x 144 mm 3.85 x 1.06 x 5,67 in
Weight	150 grams, 0.33 lb
Buttons and switches	Reset button and security switch
LEDs	Gateway, Network 1 & Network 2
IP rating	IP20
Housing material	PC ABS, UL 94 VO
Mounting	DIN rail (35 * 7,5/15)

ENVIRONMENT

Operating temperature	-25 to 70° C, -13 to 158° F
torage temperature	-40 to 85° C, -40 to 185° F

Relative humidity	0-95% non condensing	
Installation altitude	Up to 2 000 m	

POWER

Input voltage	12 - 30 VDC
Current consumption	Typical: 160 mA @ 24V Max: 400 mA @ 12V
Power connector	3-pin plug with screw terminal
Protection	Reverse voltage protection and short circuit protection

ETHERNET PORTS

Ports	2+2 x Ethernet
Isolation	Galvanic isolation
Bitrate	10/100 Mbit full duplex
Connector	RJ45
Switch.	Dual port cut-through switch

PROFINET

Mode	PROFINET IO-Device (slave)
Class	А, В
Communication channels	Real Time Channel (RT)
Input data size	1 024 bytes
Output data size	1 024 bytes
Minimum cycle time	1 ms
Max number of connections	1 IO Controller Application Relationship + 2 Device Access Application Relationships
Netload class	Class III
I&M records	Manufacturer data (I&M0), Tag information (I&M1), Date/Time (I&M2), Description (I&M3)
SNMP	Available
GSDML File	Available
Certification	Pending

ETHERNET/IP

ı	1 ode	Adapter (slave)
	lessages	Implicit and explicit

Max no of scanner connections	1 input/output (exclusive owner) 3 listen only or input only
Input data size	1 448 bytes (with large forward open)
Output data size	1 448 bytes (with large forward open)
Network redundancy	Device Level Ring (DLR), beacon-based
Quick connect	Class B
Certification	Pending
Minimum cycle time	1 ms for class 1 connections, 100 ms for class 3 connections
EDS File	Available

ETHERCAT

Mode	EtherCAT slave according to IEC 61158 Type 12 (ETG.1000)
Addressing modes	Logical, node, and position
Synchronization modes	Free run
Input data size	1 486 bytes
Output data size	1 486 bytes
Network redundancy	Device Level Ring (DLR), beacon-based
Minimum cycle time	100 μs
Features	Supports CANopen over EtherCAT (CoE)
ESI File	Available

MODBUS TCP

Mode	Server
Max number of connections	4
Input data size	1 500 bytes
Output data size	1 500 bytes

CERTIFICATIONS AND STANDARDS

UL	CUL _{US} file number E214107
CE	2014/30/EU
КС	R-R-ABJ-Communicator
EMC	EN 61000-6-2 EN 61000-4-2
	EN 61000-4-3 EN 61000-4-4 EN 61000-4-5
	EN 61000-4-6

	EN 61000-6-4 EN 55032
Environment	IEC 60068-2-1 Ab IEC 60068-2-2 Bb IEC 60068-2-1 Ab IEC 60068-2-2 Bb IEC 60068-2-14 Nb IEC 60068-2-30 Db IEC 60068-2-78 Cab IEC 60068-2-78 Cab
Vibration and shock	IEC 60068-2-27 IEC 60068-2-6
Waste certification	WEE

CONFIGURATION

Configuration software	Web based configuration
Configuration ports	Dedicated 10/100 Mbit RJ45 Ethernet configuration port and Ethernet ports

SECURITY

Secure boot	Ensures software authenticity
Security switch	Physical switch that enable/disable access to the web based configuration interface

PRODUCT PACKAGING

Content	Gateway, power connector, start-up guide, compliance information sheet
Box material	Cardboard

MEAN TIME BETWEEN FAILURE

МТВГ	> 1500000 h, Telcordia Method I Case 3 at 30° C





Ordering information

Order Code	ABC4090
Included components	Anybus Communicator - Common Ethernet

³ year guarantee. For purchasing instructions and terms and conditions, see: $\underline{\text{How to buy}}$

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