

Anybus Communicator – EtherCAT MainDevice – Modbus TCP

Order Code: ABC3128

EtherCAT MainDevice - Modbus TCP

With the new Anybus Communicator, connecting EtherCAT SubordinateDevices (slaves) to Modbus TCP-based Control Systems (PLCs) has never been easier. The Communicator provides reliable and high-speed data transfer, making it perfect for applications that require large amounts of data to be transferred quickly. Thanks to its intuitive web interface and drag-and-drop functionality, configuring the Communicator is fast and straightforward. Furthermore, you have peace of mind knowing that the Communicator is built with proven and trusted Anybus technology.

With the Anybus Communicator, you can connect your devices with confidence and get back to focusing on what matters most – your business.



With the Anybus Communicator, you can quickly and effortlessly scan the EtherCAT network for devices directly from the web user interface. The Communicator automatically identifies each device and maps its data to the control system, eliminating the need to manually search for device description files (ESI) and import them.

With the Anybus Communicator, scanning for EtherCAT devices is a simple and hassle-free process, allowing you to save time and focus on more important tasks.

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Excellent performance

- Instant data transfer The time required for data is made up of the cycle time of the first network plus the cycle time of the second network. The internal data transfer in the communicator is negligible because it corresponds to the natural fluctuations of the network cycle times (jitter).
- Hardware-accelerated endian conversion (byte swap) Communicators can change the data representation (endianness) using
 hardware-accelerated endian conversion to ensure that data is represented correctly in each PLC. You can even convert different parts
 of the data area in different ways to handle different types of data. This has no impact on performance, relieves the PLC of the data
 conversion task, and simplifies PLC programming.

Easy startup

- Dedicated Ethernet configuration port no special cables required.
- Intuitive web-based drag-and-drop configuration interface no need to install additional software.
- Scan for EtherCAT devices automatically identifies each device and maps its data toward the control system.

 Front-facing connectors make it easy to connect cables, and the slim form factor saves space on the DIN rail. oubleshoot with powerful diagnostics, including live data monitor, status screen, and support package.

Latest security features

- Secure boot functionality to detect firmware tampering and protect against malware attacks and infections.
- Security switch that locks your configuration and prevents any unauthorized access.
- The ports used in production have been disabled to prevent malware from being loaded via the ports.

For industrial environments

- · Robust, compact housing.
- Industrial components are CE and UL tested and certified.
- Wide temperature range, -25°C to 70°C.
- Top-hat rail mounting for installation close to the connected devices, reducing wiring effort.



EtherCAT Features

- EtherCAT MainDevice
- Transfer up to 1500 to and from EtherCAT (3000 bytes in total)
- 1 ms cycle time (configurable)
- Up to 24 EtherCAT SubordinateDevices (slaves)
- CANOpen Over EtherCAT (CoE)
- Cyclic data transfer using Process Data Objects (PDOs)
- Scan for EtherCAT SubordinateDevices (ESI files are not supported)
- Live list Monitor EtherCAT SubordinateDevice status from control system
- Data exchange control Enable/disable EtherCAT SubordinateDevice from control system
- Clone configuration scan an EtherCAT network once and re-use the configuration for identical systems

The following features are not supported:

- Acyclic data transfer using Service Data Objects (SDOs) (only cyclic data transfer using PDOs supported)
- Ethernet over EtherCAT (EoE)
- Servo Profile over EtherCAT (SoE)
- Redundancy with ring topology
- Import EtherCAT Slave Information (ESI) files (EtherCAT SubDevices need to be scanned)
- Select SubDevice data to be mapped towards the control system (default data is always mapped)

MODBUS TCP FEATURES

- Modbus TCP server
- Transfer up to 1 500 bytes to and from Modbus TCP (3 000 bytes total)
- 4 connections
- Function codes 01-06, 15-16, 23, 43/14
- Dual RJ45 Ethernet ports with 10/100 Mbit full duplex
- · Daisy chaining with integrated switch

ANYBUS' SECOND-GENERATION GATEWAYS OFFER WORLD-LEADING USABILITY THANKS TO THE INTUITIVE GRAPHICAL USER INTERFACE (GUI).

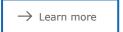
The User Interface enables you to:

- Change the configurations without installing additional software
- Use drag and drop functionality to configure the gateway
- Import or export files or firmware
- Analyze live data or export a log file for deeper analysis
- Use the support tab to open the relevant user guide or generate a customized support package
- Want to brand your interface? No problem! Customize the interface to meet your look



INTERESTED?

Click on the link to watch the User Interface in action. You can even try the user Interface before you buy!



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
Storage temperature	-40 to 85° C, -40 to 185° F
elative humidity	0-95% non condensing

Installation altitude	Up to 2 000 m
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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 x Ethernet ports per Ethernet protocol
Isolation	Galvanic isolation
Bitrate	10/100 Mbit full duplex
Connector	RJ45
Switch.	Dual port cut-through switch

EtherCAT MainDevice

Mode	MainDevice
Cycle times supported	1, 2 ,4, 8, 16, 32, 64, 128 ms
Max number of SubDevices	24
Input data size	1500 bytes
Output data size	1500 bytes
Data transfer	Cyclical data transfer with PDOs (SDOs are not supported)
SubDevice discovery	Scan to discover SubDevices via a web user interface (ESI files are not supported)
SubDevice PDOs	Default data is mapped to the control system (can't pick what to map)

MODBUS TCP

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

*RTIFICATIONS AND STANDARDS

/L	CUL _{US} file number E214107
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CE	2014/30/EU
кс	R-R-ABJ-Communicator (Pending for EtherCAT MainDevice)
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

МТВБ	> 1 500 000 h, Telcordia Method I Case 3 at 30° C

Ordering Information

ORDER CODE: ABC3128 WARRANTY: 5 years

For purchasing instructions and terms and conditions, see: <u>How to buy</u>

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