Anybus®
BY HMS NETWORKS

Communicator

EtherCAT MainDevice

Need to connect your EtherCAT device to another device running on different industrial networks? The Anybus Communicator has your back! No special cables, software, or training is required.

The EtherCAT MainDevice from Anybus are designed to ensure reliable, secure, and high-speed data transfer between EtherCAT and different industrial Ethernet and Fieldbus networks. Very easy to install and deploy, the stand-alone gateways enable transparent data exchange allowing you to both bridge and integrate legacy equipment into modern high-performance networks.

High performance

Instant data transfer of up to 1500 bytes with hardware accelerated endian conversion (byte swap) enables you to take full advantage of high-speed industrial networks.

Cybersecurity

Designed to keep you safe from cyberattacks. Secure boot protects you against malicious software and a security switch adds physical protection to prevent unauthorized configuration changes.

Durability

Built using carefully selected industrial components and verified against industry standards. Proven network conformance thanks to the market-leading NP40 network processor.
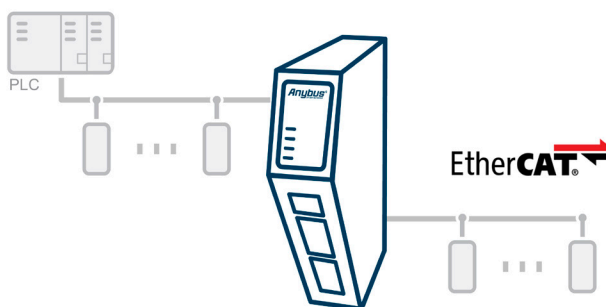
User-friendly

Fast installation and configuration are guaranteed thanks to an intuitive web user interface, ethernet configuration cable, easy-to-understand documentation, and effective housing design.

Product selection

Article nr	Control sys. 1	Device(s)
ABC3113	PROFINET	EtherCAT
ABC3107	Ethernet/IP	EtherCAT
ABC3128	Modbus TCP	EtherCAT
ABC3100	PROFIBUS	EtherCAT
ABC3190	Common Eth.*	EtherCAT

*Common ethernet: select among EtherNet/IP, Modbus TCP and PROFINET control system

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General

Dimensions with connectors (L x W x H)	98 x 27 x 144 mm / 3.85 x 1.06 x 5,67 in
Weight	150 grams, 0.33 lb
IP rating	IP20
Housing material	PC ABS, UL 94 VO
Mounting	DIN rail (35 * 7,5/15)
Operating temperature	-25 to 70° C,-13 to 158° F
Configuration	Web based via Ethernet configuration port
Industrial network connector(s)	2xRJ45 10/100 Mbit (daisy chaining) / DB9 (PROFIBUS)
Certification	CE, UKCA, UL ord loc (E214107), KC, RMC
MTBF	> 1 500 000 h, Telcordia Method I Case 3 at 30° C

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

Network specifications

EtherCAT MainDevice	
- Transfer up to 1 500 bytes to EtherCAT SubDevices - Transfer up to 1 500 bytes from EtherCAT SubDevices - Total supported cyclic process data: 3000 bytes - Up to 24 nodes (SubDevices) - Configuration by scanning EtherCAT nodes (SubDevices)	- 1ms minimum cycle time* - Gateway latency < 1ms (when in sync) - Endian conversion (without affecting latency) - CAN over EtherCAT (COE) - Live list published as process data

PROFINET IO Device	Modbus TCP Server
- Transfer up to 1 024 bytes from PROFINET - Transfer up to 1 024 bytes to PROFINET - Total supported cyclic process data: 2048 bytes - 1 ms minimum cycle time - Conformance class B, Real-Time (RT) - Network load robustness, Netload Class III	- Transfer up to 1 500 bytes to Modbus TCP - Transfer up to 1 500 bytes from Modbus TCP - Total supported process data: 3 000 bytes - 4 connections - Function codes 01-06, 15-16, 23, 43/14

Ethernet/IP Adapter	PROFIBUS DP Device (DPV1/DPV0)
- Transfer up to 1 448 bytes to EtherNet/IP - Transfer up to 1 448 bytes from EtherNet/IP - Total supported cyclic process data: 2896 bytes - Class 1 and Class 3 connection for process data - Device Level Ring (beacon mode) - Quick Connect class B	- Transfer up to 244 bytes to PROFIBUS - Transfer up to 244 bytes from PROFIBUS - Total supported process data: 488 bytes - Automatic baud rate detection up to 12 Mbit/s - Sync, Freeze and Watchdog - I&M Ident numbers 0-31x

* Depending on the application