Anybus®
BY HMS NETWORKS

Anybus Communicator

Control System (PLC) to Control System (PLC)

Need to connect PLCs running on different industrial networks? The Anybus Communicator has your back! There's an Anybus Communicator to transfer data over any combination of major industrial networks. No special cables, software, or training is required.

Anybus Communicators are designed to ensure reliable, secure, and high-speed data transfer between different industrial Ethernet and Fieldbus networks. Very easy to install and deploy, the stand-alone gateways enable transparent data exchange between PLCs 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.
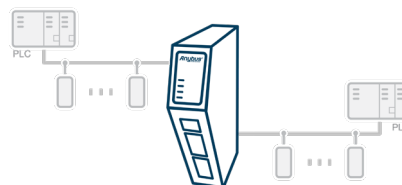
User-friendly

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	Control sys 2.	Replaces
ABC4010	EtherNet/IP	EtherNet/IP	AB7831
ABC4011	EtherNet/IP	Modbus TCP	AB7632
ABC4012	EtherNet/IP	EtherCAT	AB7682
ABC4013	PROFINET	EtherNet/IP	AB7649
ABC4014	PROFIBUS	EtherNet/IP	AB7832
ABC4016	Modbus TCP	EtherCAT	AB7901
ABC4017	PROFINET	Modbus TCP	AB7650
ABC4018	PROFIBUS	Modbus TCP	AB7634
ABC4020	PROFINET	EtherCAT	AB7684
ABC4021	EtherCAT	PROFIBUS	AB7685
ABC4022	PROFINET	PROFINET	AB7651
ABC4023	PROFINET	PROFIBUS	AB7652
ABC4024	Modbus RTU	EtherNet/IP	AB7652
ABC4025	Modbus RTU	Modbus TCP	AB7652

Article nr	Control sys. 1	Control sys 2.	Replaces
ABC4026	Modbus RTU	EtherCAT	AB7652
ABC4027	Modbus RTU	PROFINET	AB7652
ABC4028	Modbus RTU	PROFIBUS	AB7652
ABC4028EX	Modbus RTU	PROFIBUS ATEX	AB7652
ABC4090	Common eth*	Common eth*	
ABC4090EX	Common eth*	Common eth* ATEX	
ABC4091	Common eth*	PROFIBUS	
ABC4091EX	Common eth*	PROFIBUS ATEX	
ABC4092	Common eth*	Modbus RTU	
ABC4092EX	Common eth*	Modbus RTU ATEX	

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

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
Serial connector	Serial 7-pin screw in
Industrial network connector(s)	2xRJ45 10/100 Mbit (daishy 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

Modbus TCP Server	PROFINET IO Device	Ethernet/IP Adapter
- 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	- 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 1 448 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
PROFIBUS DP Device (DPV1/DPV0)	EtherCAT SubDevice	
- 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	- Transfer up to 1 486 bytes from EtherCAT - Transfer up to 1 486 bytes to EtherCAT - Total supported process data: 2 972 bytes - EtherCAT SubDevice according to IEC 61158 Type 12 (ETG.1000) - Network cycle time down to 100 µs - Supports CANopen over EtherCAT	