Anybus®
BY HMS NETWORKS

Communicator

Modbus TCP Clients

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

The Modbus TCP Client from Anybus are designed to ensure reliable, secure, and high-speed data transfer between Modbus TCP 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.
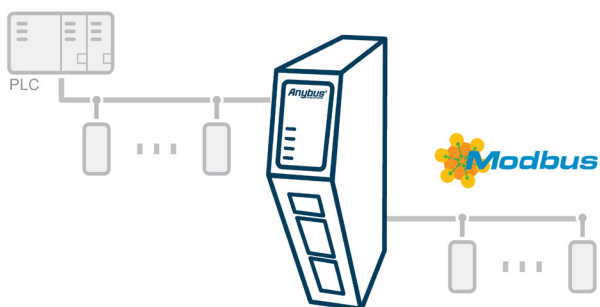
User-friendly

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 system	Device(s)
ABC3213	PROFINET	Modbus TCP
ABC3207	Ethernet/IP	Modbus TCP
ABC3200	PROFIBUS	Modbus TCP
ABC3261	EtherCAT	Modbus TCP
ABC3290	Common Eth.*	Modbus TCP

*Common ethernet: select among EtherNet/IP, EtherCAT 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 (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 Client

- Transfer up to 1 500 bytes to Modbus TCP devices
- Transfer up to 1 500 bytes from Modbus TCP devices
- Total supported cyclic process data: 3000 bytes
- Up to 64 nodes
- Drag and drop I/O configuration for data mapping
- Transfer data cyclically or on data change
- 10ms minimum cycle time
- Gateway latency < 1ms
- Endian conversion (without affecting latency)
- Live list and data exchange control per transaction

PROFINET IO Device

- 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

EtherCAT SubDevice

- 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

Ethernet/IP Adapter

- 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)

- 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