

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.



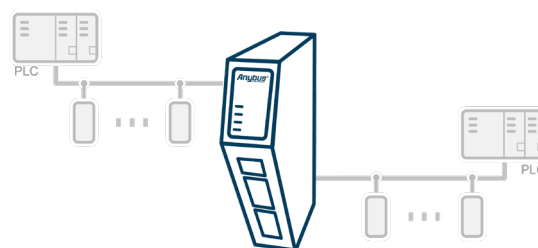
User-friendly

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 |
|------------|----------------|----------------|----------|
| 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 |



| Article nr | Control sys. 1 | Control sys 2. | Replaces |
|------------|----------------|----------------|----------|
| ABC4021 | EtherCAT | PROFIBUS | AB7685 |
| ABC4023 | PROFINET | PROFIBUS | AB7652 |
| ABC4090 | Common eth* | Common eth* | |
| ABC4091 | Common eth* | PROFIBUS | |

*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 |
|--|--|--|
| <ul style="list-style-type: none"> - 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 | <ul style="list-style-type: none"> - 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 | <ul style="list-style-type: none"> - 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 | |
| <ul style="list-style-type: none"> - 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 | <ul style="list-style-type: none"> - 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 | |

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[ABC4014-A](#) [ABC4018-A](#) [ABC4021-A](#) [ABC4091-A](#)