

Anybus Communicator - PROFINET IO to PROFIBUS DP device

The Anybus Communicator PROFINET IO device – PROFIBUS DP device is an industrial protocol gateway that allows you to seamlessly transfer data between PLC control systems over PROFINET and PROFIBUS networks.

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 integrate legacy equipment into modern, high-performance networks without any changes to the hardware and only minimal changes to the software.

Anybus Communicators are built using the award-winning and proven Anybus NP40 industrial network processor providing network conformance, high performance, and reliability. When connecting between PLCs on different networks, extremely fast data cycling is enabled with data transfer of up to 1500 bytes in each direction, meeting most current control application needs as well as supporting future demands.

Quick installation is ensured thanks to the intuitive configuration, easy-to-understand documentation, and smart hardware and housing design.



Excellent performance

- Instant data transfer The time it takes to transfer data between two PLCs consists of the cycle time on the first network plus the cycle time on the second network. Internal data transfer in the Communicators is negligible as it's in line with the natural variation of the network cycle times (jitter).
- Hardware-accelerated endian conversion (byte swap) The Communicators can change the data representation (endianness) through a
 hardware-accelerated endian conversion to ensure data is presented correctly in each PLC. You can even convert different parts of the
 data area in different ways to handle different data types. It has no impact on performance, offloads the PLC of the data conversion
 task, and simplifies PLC programming.

Easy to Use

- Dedicated ethernet configuration port no special cables required.
- Intuitive web-based drag and drop configuration interface no need to install any additional software.
- Forward-facing ports make it easy to connect cables and the slim form factor saves space on the DIN rail.
- Troubleshoot problems with powerful diagnostics including live data monitor, status screen, and support package.

Latest Security Features

- Secure boot functionality to detect tampering with firmware and resist attacks and infection from malware.
- Security switch which 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.

Designed for industrial environments

Robust compact housing.

dustrial components are tested and certified according to CE and UL.

Vide temperate range, -25°C to 70°C.

• DIN-rail mounting to enable installation close to connected devices, reducing the amount of wiring.



PROFINET FEATURES

- PROFINET IO-Device (slave)
- Transfer up to 1 024 bytes to and from PROFINET (2048 bytes total)
- 1 ms minimum cycle time
- Conformance class B, Real-Time (RT)
- High robustness against network load, Netload Class III
- Dual RJ45 Ethernet ports with 10/100 Mbit full duplex
- Daisy chaining with integrated switch

PROFIBUS DP DEVICE FEATURES

- PROFIBUS DPV1 & DPV0 Device (slave)
- Transfer up to 244 bytes to and from PROFIBUS (488 bytes total)
- Automatic baud rate detection up to 12 Mbit/s
- PROFIBUS slave address setting via onboard rotary switches or web interface
- Supports Sync and Freeze and Watchdog
- Supports I&M 0-3
- 1x D-sub 9-pin female PROFIBUS connector
- GSD file available



Communicator Web UI Intro



GENERAL

Dimensions (L x W x H) with	98 x 27 x 144 mm
serial and power connector	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)

∠NVIRONMENT

Operating temperature	-25 to 70° C, -13 to 158° F
Storage temperature	-40 to 85° C, -40 to 185° F
Relative humidity	0-95% non condensing
Installation altitude	Up to 2 000 m

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+2 x Ethernet
Isolation	Galvanic isolation
Bitrate	10/100 Mbit full duplex
Connector	RJ45
Switch.	Dual port cut-through switch

PROFINET

Mode	PROFINET IO-Device (slave)
Class	А, В
Communication channels	Real Time Channel (RT)
Input data size	1 024 bytes
Output data size	1 024 bytes
Minimum cycle time	1 ms
Max number of connections	1 IO Controller Application Relationship + 2 Device Access Application Relationships
Netload class	Class III
I&M records	Manufacturer data (I&M0), Tag information (I&M1), Date/Time (I&M2), Description (I&M3)
SNMP	Available
GSDML File	Available
Certification	Pending



Mode	PROFIBUS DPV1 Device (slave)
Input data size	244 bytes
Output data size	244 bytes
Baude rate	Automatic baud rate detection up to 12 Mbit/s
Rotary switches	PROFIBUS slave address setting via onboard rotary switches or web interface
Features	Supports Sync and Freeze and Watchdog
I&M records	Manufacturer data (I&M0), Tag information (I&M1), Date/Time (I&M2), Description (I&M3)
Connector	1x D-sub 9-pin female PROFIBUS connector
GSD	GSD file available

CERTIFICATIONS AND STANDARDS

UL	CULUSfile number E214107
CE	2014/30/EU
кс	R-R-ABJ-Communicator
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

CURITY

Secure boot	Ensures software authenticity
occur e boot	Ensures software dutilentially

Security switch	Physical switch that enable/disable access to the web based configuration interface	
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PRODUCT PACKAGING

Content	Gateway, power connector, start-up guide, compliance information sheet
Box material	Cardboard

MEAN TIME BETWEEN FAILURE

мтвғ	> 1500000 h, Telcordia Method I Case 3 at 30° C

Ordering Information

ORDER CODE: ABC4023-A WARRANTY: 3 years

For purchasing instructions and terms and conditions, see: How to buy

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