

Anybus Communicator – Serial Master to PROFINET IO-Device

Item number: ABC3013-A

The Anybus Communicator Serial Master to PROFINET IO-Device enables you to connect any RS-232/485 device or equipment to PROFINET control systems. Anybus Communicators ensure reliable, secure, and high-speed data transfers between different industrial networks. Thanks to our intuitive web-based user interface, they're also incredibly easy to use.



A protocol converter that connects serial devices to PROFINET control systems

Features and benefits

- ✓ **Easily convert proprietary RS-232/485 protocols**
Convert RS-232/485 Request/Response or Produce/Consume protocol in just a few minutes. Use the drag-and-drop frame builder to build frames, insert/extract data, and handle complex variable frames.
- ✓ **Transfer 1024 bytes to and from PROFINET controller (PLC)**
Transfer up to 1024 bytes in each direction (2048 total) via dual 10/100 Mbit full duplex RJ45 ports with an integrated switch for daisy-chaining. PROFINET IO-Device, 1 ms minimum cycle time, Conformance Class B, Netload Class III, and includes a GSD file.
- ✓ **Configure via web interface over Ethernet**
With a graphical and responsive web interface, configuration is a breeze. In addition, there's no software to install and the dedicated Ethernet configuration port makes it easy to get started.
- ✓ **Drop-in replacement**
Already using a Communicator Classic? Don't worry, with legacy mode you can import your current serial configuration and continue using the same configuration in your controller/PLC.
- ✓ **Built for factory floors**
The Gateway is made with industrial-grade components, verified to meet industry standards, and backed by a 5-year warranty. Its slim form factor, front-facing ports, and cable tie make DIN-rail installation easy.
- ✓ **Connect up to 32 Modbus RTU Servers (slaves)**
Easily handles demanding applications thanks to support for up to 32 servers, 150 Modbus commands, a selectable 3 ms serial update rate, a graphical transaction builder, controller/PLC triggers and inter-node data exchange.
- ✓ **Instant data transfer**
The Communicator transfers data instantly between networks, with processing time so low you don't even need to count it, as it's in line with network jitter. Just add the cycle times of both networks to get the total transfer time.
- ✓ **Diagnostics and support**
The user interface shows connection status, allowing you to analyze serial traffic and monitor data going through the gateway. Monitor and control nodes via the Live List and Data Exchange Control features. Our global support team is ready to help if needed.
- ✓ **Secure and segment networks**
Secure boot blocks malware, while a security switch locks configurations to prevent unauthorized changes. Network segmentation is inherent in the design, as each network is run separately, with only configured data transferred between networks.

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General	
Net Width (mm)	27
Net Height (mm)	144
Net Depth (mm)	98
Net Weight (g)	150
Packed Width (mm)	35
Packed Height (mm)	170
Packed Depth (mm)	115
Packed Weight (g)	185
Operating Temperature °C Min	-25
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Type Value at Vcc Nom (mA)	90mA @ 24V DC (2.2W)
Current Consumption Max value at Vcc nom (mA)	125mA @24V DC (3W)
Input Voltage (V)	12-30V DC
Power Connector	3-pin, 5.08 Phoenix plug connector
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	TRUE

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General

Mounting	DIN-rail (EN 50022 standard)
Housing Materials	PC ABS, UL 94 VO
Packaging Material	Cardboard
Warranty (years)	5

Identification and Status

Product ID	ABC3013-A
Model Code	40-SER-ETH-B
Predecessor	AB7013-C, AB7013-C-5PACK
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	5A991.b.1

Physical Features

Connectors / Input / Output	1x 7-pin, 5.08 Phoenix plug connector, 2x RJ45, RJ45 Config port
Push Buttons	Factory reset
DIP & Rotary Switches	Security lock switch
Contains Battery	No

Modbus-RTU Features

Modbus-RTU Mode	Client / Master
Modbus-RTU Supported Functionality	RS-232; RS485; Standard Modbus RTU Master; Custom Request / Response commands; Custom Produce / Consume transactions; Trigger initiated transactions; 7 or 8 data bit; None, Odd, Even Parity; 1 or 2 stop bit; Clear/Freeze
Modbus-RTU Functions Supported	1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 15, 16, 17, 20, 21, 22, 24
Modbus-RTU Baud Rate	1200,1800,2400,4800,7200,9600,14400,19200,35700,38400,57600,115200,128000 bit/s

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Modbus-RTU Features

Modbus-RTU Input Data Size	1500 bytes
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Modbus-RTU Output Data Size	1500 bytes
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PROFINET Features

PROFINET Mode	Slave
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PROFINET Supported Functionality	RT; Daisy chaining;
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PROFINET Conformance Class	Class B
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PROFINET Configuration File	GSDML available
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PROFINET Bandwidth	10/100MBit down to 1ms cycle time
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PROFINET Input Data Size	1024 bytes
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PROFINET Output Data Size	1024 bytes
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Serial Features

Max Stations	31
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Connector	1x 7-pin, 5.08 Phoenix plug connector
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Max Nodes	31
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Baud Rate	1200,1800,2400,4800,7200,9600,14400,19200,35700,38400,57600,115200,128000 bit/s
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Supported Functionality	RS-232; RS485; Standard Modbus RTU Master; Custom Request / Response commands; Custom Produce / Consume transactions; Trigger initiated transactions; 7 or 8 data bit; None, Odd, Even Parity; 1 or 2 stop bit; Clear/Freeze
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Certifications and Standards

Protection Class IP	IP20
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RoHS Compliant	Yes
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Recycle / Disposal	TRUE
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CE	Yes
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FCC	No
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Certifications and Standards

UL	Yes
UL Information	E214107: Ord.Loc UL 61010-1, CSA C22.2 No. 61010-1, UL 61010-2-201, CSA C22.2 No. 61010-2-201
ATEX	No
KC	Yes
EMC	Yes
Environment	EN 55016-2-3 Class A, EN 55032 Class A, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6
Waste Certification (WEEE)	Yes
WEEE Category	IT and telecommunications equipment