



Anybus EtherTAP2: 10/100

A passive diagnostics solution that can be used around the clock.

The EtherTAP2 is a monitoring interface that enables the in-depth analysis of PROFINET and EtherNet/IP traffic. Just like its highly popular predecessor, it acts as a bridge between your industrial network and our Osiris diagnostics platform. However, its newly designed housing and improved functionality guarantee the early detection of communication errors and give round-the-clock access to passive diagnostics.

Upgrading the EtherTAP's housing – which is based on the Atlas2 Plus - has turned our handy plug and play solution into an effective permanent monitoring solution. First, it's designed to be permanently installed on a DIN rail. It now fits neatly side-by-side your Atlas2 Plus. Second, it improves heat dissipation in the cabinet, reducing the risk of overheating and boosting efficiency.

Distinctive features

- Passive diagnostics
- Cycle time per device
- Positive and negative message jitter
- Number of dropped packets
- Alarm Triggers



Application example:

- Message recording of the PROFINET and Industrial Ethernet
- Compatible with Anybus Osiris Software for passive diagnostics
- Telegram analysis on bit-level

To make tapping available make sure you have:

- A correct license
- An EtherTAP placed between two devices communicating over PROFINET
- A running measurement

Dimensions

W x D x H (mm):	52 x 130 x 120 (DIN-Rail clip included; plug-able connectors as amounted in installations excluded)
Weight:	440 grams (excluding plug-able connectors, packing material)
DIN-rail:	35 x 7.5 mm (IEC/EN 60715)

Ambient conditions

Operating temperature range	-20 ^o to +60 ^o Celsius
Storage and shipping temperature	-20 ^o to +85 ^o Celsius
Relative air humidity	Max. 98%, non-condensing
Ingress protection	IP 20 (IEC/EN 60529, DIN 40 050)

Power supply

Maximum power use	Max. 2.6 W
Powered from USB port	Yes, connect the second power supply if the USB power supply is not sufficient.
Nominal power supply USB	5 VDC

Current consumption USB @5 VDC	Max. 520 mA at 10 Mbit/s (Full Traffic) Max. 450 mA at 100 Mbit/s (Full Traffic)
Nominal power supply Secondary	12 to 24 VDC
Current consumption Secondary @12 VDC	Max. 220 mA at 10 Mbit/s (Full Traffic) Max. 190 mA at 100 Mbit/s (Full Traffic)
Reverse polarity protection	Yes
Pluggable power supply connector	Pin - : 0 V Pin +: 12 to 24 VDC Pin SH: Shield
Wire diameter	Max. AWG 14 (max area 2.5 mm ²)
<u>Installation notes:</u>	<p>The device shall be powered with a correct power supply:</p> <ul style="list-style-type: none"> • For North America the power supply shall be listed and meet the requirements for class 2 • For the rest of the world the power supply shall meet the requirements for limited power sources as defined in IEC/EN 60950-1 cl. 2.5 <p>Possible power supplies:</p> <p><u>XP-power DNR120-480 series</u> <u>Phoenix STEP-PS series</u> <u>Traco power TCL series</u></p>

Ethernet

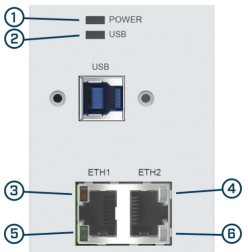
Connector ETH1 and ETH2	RJ-45
Maximum cable length	100 m
Link speed	10/100 Mbps
Network Link	Galvanically separated
Network Latency	10Mbps: max. 6600 ns

100Mbps: max. 660 ns

USB Ports

Port type	USB3.0; Port type B
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LEDs

Power LED (1)	On: Power Ok
USB LED (2)	Off: No USB cable connected On: USB cable and USB power connected Blinking: Constant synchronization between system time and hardware timestamp.
Link/Activity LEDs (3,4)	On: The Ethernet Port is linked Blinking: The port is linked and has RX/TX activity (traffic is passing through).
Speed LEDs (5,6) 	LED5 On: Operating at 100 Mbps. LED5 Blinking: EtherTAP is Initializing. LED6 On: Operating at 10 Mbps. LED6 Blinking: EtherTAP firmware corrupted. LED5,6 Blinking: EtherTAP is not connected or trying to connect. LED5,6 Alternate Blinking: EtherTAP cannot find a common speed between the connected devices.

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System requirements

System type and Operating system	Atlas, Atlas2 Plus; Linux PC: Dual Core Processor, 4 GB memory, USB3.0 port; Windows 7/8/10 (32-bit & 64-bit)
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Standards and Approvals

CE	EMC Directive 2014/30/EU, class A RoHs Directive 2011/65/EU Emission: CISPR32 Immunity: CISPR35
FCC	47 CFR 15 & ICES-003 (Issue 6), class A

File	Version	Size	Read online
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Ordering Information

Order Codes	513-20011A
Included Components	Anybus EtherTAP2: 10/100 Supplied with manual, drivers, 1 x 1m RJ/45, 1 x 1 USB
Additional Information	Works with EtherTAP: PROFINET Analysis License (101-700204), Wireshark, ClearSight, OptiView, NetSpector, OmniPeak, NetDecoder, Packetyzer, Ethertest.
Warranty	1 year



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