

## 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 <sup>o</sup> to +60 <sup>o</sup> Celsius
Storage and shipping temperature	-20 <sup>o</sup> to +85 <sup>o</sup> Celsius
Relative air humidity	Max. 98%, non-condensing
<b>Ingress protection</b>	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 <sup>2</sup> )
<u>Installation notes:</u>	<p>The device shall be powered with a correct power supply:</p> <ul style="list-style-type: none"><li>• For North America the power supply shall be listed and meet the requirements for class 2</li><li>• 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</li></ul> <p>Possible power supplies:</p> <p><a href="#">XP-power DNR120-480 series</a> <a href="#">Phoenix STEP-PS series</a> <a href="#">Traco power TCL series</a></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

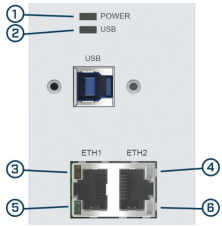
Port type	USB3.0; Port type B
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## LEDs

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.

**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**

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