

# TAP CURIOUS

Handheld tool for RT ethernet analysis

# TAP CURIOUS

## ETHERNET MONITORING MADE EASY

TAP CURIOUS is a mobile device designed to analyse all popular real time ethernet networks to the market. The device's main tasks include recording and analysing Delay, Jitter and CRC faults in the network. The device can monitor up to two independent ethernet channels simultaneously in full duplex operation. Thanks to the completely passive listening operation, there are zero delays and data communication in the network is not influenced.

The tapped data from the network is furnished with a 20-byte long trailer (including the time-stamp) and relayed via the existent uplink port to a PC or laptop for further analysis. The reading and evaluation of the measured package data is done via the freely available Wireshark software. A plugin is available for a trouble-free software integration.

In addition to the recording of faulty telegrams in the network by which the TAP is installed between two devices (see Example A), TAP can also be used to specifically analyse data streams of a device to be found in the network (see Example B). In doing so, TAP CURIOUS record the frames directly before and directly after the device to be analysed. This enables the measurement of, amongst other things, the delay and jitter

of the device and whether, for example, the device swallows or falsifies respectively telegrams.

As a result of its compact and durable plastic housing, the device is not only suitable for work in laboratories but also for daily use in the field.

### Filter functions

TAP CURIOUS comes equipped with a wide range of filter functions that assist the specific search for specific values and therefore significantly reduce the amount of data to be analysed. Faults occurring in the network can thus be found quicker and eliminated. TAP CURIOUS filter functions can be configured easily and quickly via the graphic, browser-based user-interface of the TAP CURIOUS.

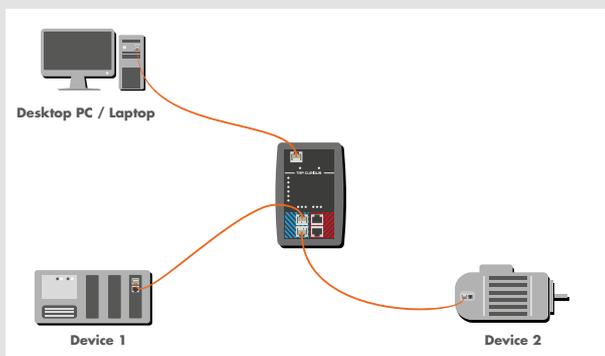
### Trigger functions

By means of the available digital in and output, it is possible to trigger particular network conditions; ideal for specifically narrowing down sporadically appearing faults and then finding and rectifying them. In addition to the digital output, there are also five freely configurable LEDs available to indicate optically, for example, the occurrence of a faulty transmission on the device. The digital input for example ensures that recording can be started at any point in time.

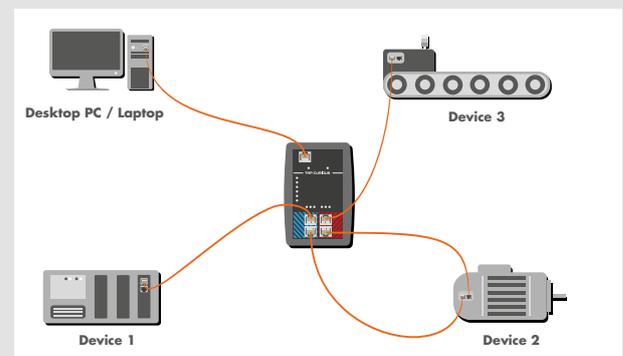
### 100 Mbit/s and 10 Mbit/s mode

TAP CURIOUS can be operated in 100 Mbit/s and 10 Mbit/s mode. The mode can easily be switched via the configuration menu.

## APPLICATION EXAMPLES



Example A



Example B

# Specifications

Supported protocols	all ethernet-based protocols
No. of ports/channels	4/2
Probe ports	100 / 10 MBit/s
Uplink port	1 GBit/s
Throughput delay	0 $\mu$ s (zero delay)
Resolution timestamp	1 ns
Power supply	24 VDC / 230 VAC
Size (L x W x H)	approx. 92 x 140 x 28 mm
Weight	approx. 150 g
IP Code	IP20
Operating temperature	0°C...+55°C
Storage temperature	-25°C...+85°C
Humidity	95%, non-condensing
CE	Yes
EMV-compatible	Yes

# Scope of delivery

TAP CURIOUS

Transportation case

Power plug 230 VDC with adapters

Plug for the digital input and output

Operating instructions, Wireshark plugins and web server files on USB stick

Article	Article number
TAP CURIOUS	100240

Manufacturer:

KUNBUS GmbH | Heerweg 15C | 73770 Denkendorf | Germany | Tel: +49-711/30020 678 | Fax: +49-711/30020 677 | info@kunbus.com | www.kunbus.com