



Data Sheet

NETLion 1000

NETLion 1000 is a development tool for 100/1000BASE-T1 networks.

NETLion 1000 is a development tool for 100/1000BASE-T1 networks. It helps the user with logging and analysis of data traffic or with the conversion of 100/1000BASE-T1 physical layers to 100BASE-TX/1000BASE-T Ethernet, as Ethernet is the commonly used network technology.

Dual Media Converter Mode

NETLion 1000 converts up to two 100/1000BASE-T1 signals to 100BASE-TX/1000BASE-T Ethernet. You can use two independent bi-directional converter channels.

Network TAP Mode

During the operating mode "Network TAP", you can decouple data of the two 100/1000BASE-T1 line ends and transmit data to the two 100BASE-TX/1000BASE-T interfaces with no interference on the communication in the 100/1000BASE-T1 network.

Software Interfaces

NETLion 1000 has a configuration Ethernet port where you can access the web interface. With the NETLion 1000 web interface you can see signal quality, occurring errors, as well as the status of the device. For automation, NETLion 1000 provides a common gateway interface (CGI) to change the device settings.

Use in the Automotive Area

NETLion 1000 can be used on the development desk and even in harsh environments. Power supply and operating temperature range are designed for the permanent integration under these conditions.

Highlights & Features

Two Devices in One

- Dual Media Converter
- Network TAP

Two Speeds 100/1000Base-T1

LEDs for

- 100/1000BASE-T1 Signal Quality
- Operation Mode
- Status
- Master/Slave
- Ethernet Port Speed

Web & SW-Interface

- For the view of diagnosis data and further PHY adjustments
- Modes for compliance tests of 100/1000BASE-T1

Cable Properties Tester

- Polarity
- Length
- Status (open, short circuit, terminated)

Simple Configuration

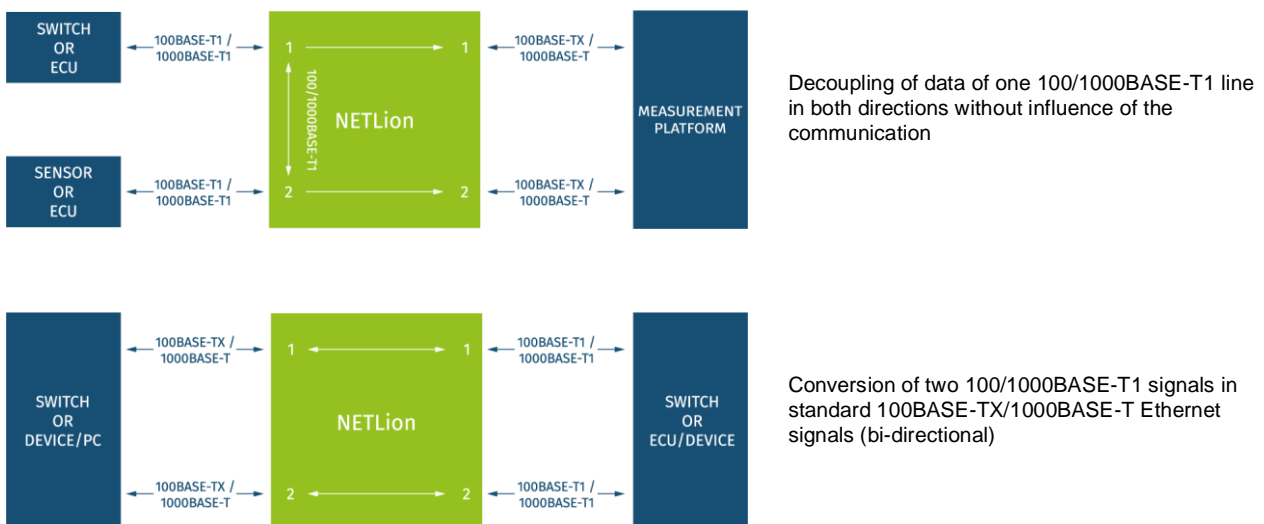
- Basic configuration without PC (DIP switches)
- Extended Configuration and diagnosis via NETLion Web interface
- Common Gateway Interface (CGI)



Specifications

Operating Temperature	-40 °C to 75 °C ambient	
Supply Voltage	9 V to 48 V	
Maximum Electrical Current	1 A (9 V)	
IP Protection Class	IP20	
Housing Dimensions	127 mm (W), 105 mm (D), 26 mm (H)	
Weight	290 grams	
Approvals	CE, FCC, VCCI, KC, RoHS, REACH	
Interfaces	1x MGMT Port, RJ45	Management port
	2x 100BASE-T1/1000BASE-T1, MATEnet	802.3bw / 802.3bb
	2x 100BASE-TX/1000BASE-T, RJ45	IEEE 802.3 Clause 40 (formerly IEEE 802.3ab)

Block Diagram of the System



Order Information

Name	Part Number	Description
NETLion 1000 C2T	B18005-NEL-001-0001	100/1000BASE-T1 – 100BASE-TX/1000BASE-T Dual Media Converter & Network TAP
NETLion 1000 C2	B18005-NEL-001-0002	100/1000BASE-T1 – 100BASE-TX/1000BASE-T Dual Media Converter