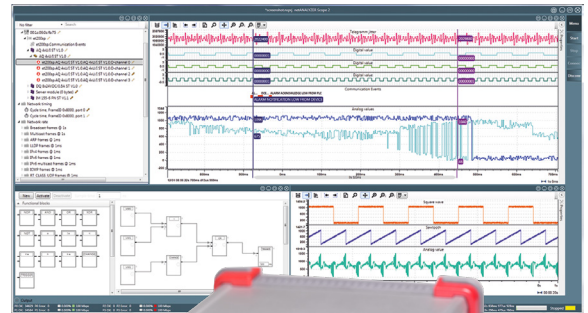


netANALYZER

Ethernet analysis made easy

- Comprehensive analysis of Real-Time Ethernet systems
- Passive, without impact on network or PLC
- Intuitive graphical display
- Station lists, alarms, process values, network load and jitter measurement
- Endless recording via customizable triggers



Powerful analysis with simple operating concept

The netANALYZER is a tool for the simple analysis of Real-Time Ethernet networks. The scope of delivery includes a capture-hardware for recording the telegrams on the network as well as a graphical user software for Windows with extensive analysis functions. Of course, the netANALYZER hardware can also be used together with other analysis software such as Wireshark.

Using netANALYZER and the addon software netANALYZER Scope you always have your Ethernet network at your fingertips. Measure important key data such as station lists, alarms, process values, network load and telegram jitter without affecting the network or PLC.

To narrow down to sporadic errors netANALYZER box supports autonomous operation without PC. Thus, one can record telegram traffic quickly in the automation floor by a simple touch of a button. With the help of the powerful trigger function the netANALYZER can remain in a plant for a period of time, allowing facilitated troubleshooting.

On the occurrence of trigger events the netANALYZER automatically generates telegram snapshots that can be interpreted later using the netANALYZER Scope software.



→ netANALYZER
Service-Hotline: +49 (0) 6190 9907-90
www.hilscher.com

netANALYZER

Ethernet analysis made easy

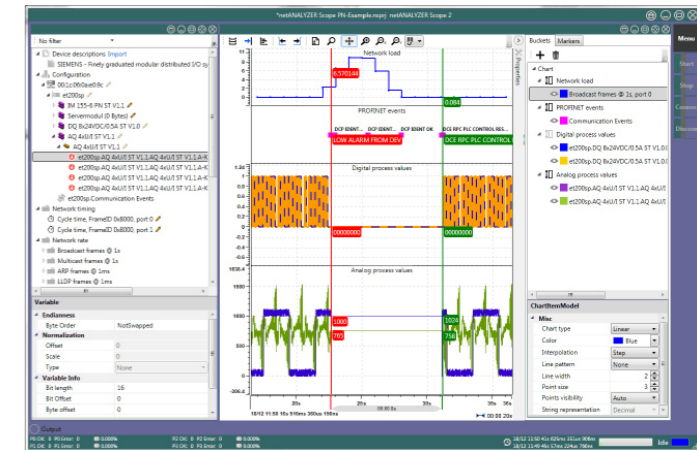


netANALYZER Hardware

- Passive recording with zero-delay < 1 ns
- Capture up to 4 Ethernet ports and 4 digital switching events
- ± 5 ns measurement accuracy, 1 ns resolution
- Detailed error information for each telegram
- Rugged carrying case for field use

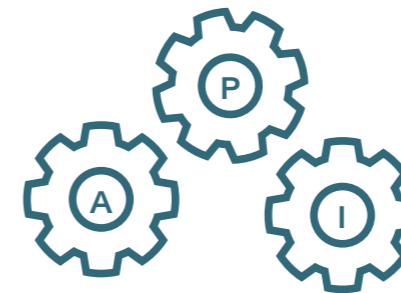
netANALYZER Scope

- Intuitive graphical interface
 - Eliminates manual analysis of endless telegram records
- Common display on a timeline of:
 - Process data
 - Network events
 - Network load
 - Frame jitter
 - Frame delay
- Quickest function for easy diagnosis of
 - Network stations
 - Cyclic and acyclic connections
 - Alarms and other important events
- Comprehensive trigger function
- Import of frame records for graphical analysis
- Save and load complete analysis projects



Autonomous operation without PC

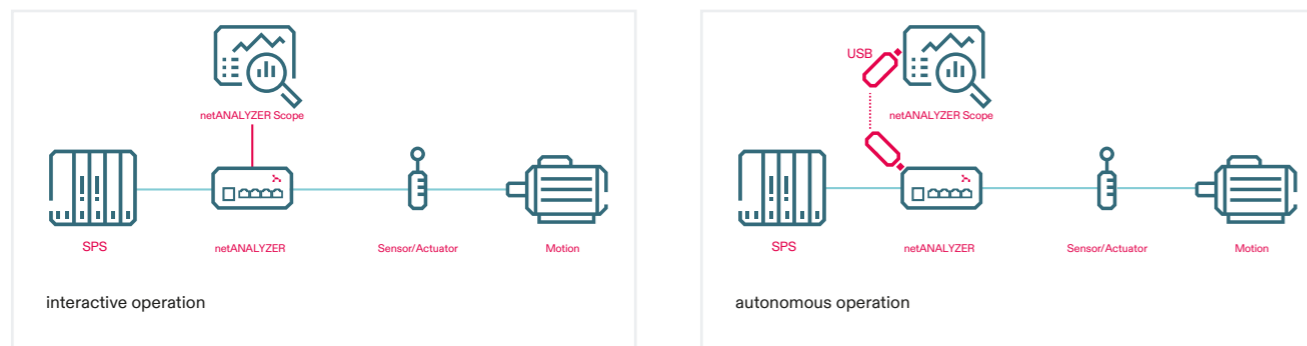
- Quick and easy recording „on site“ without connected PC
- Continuous operation with customizable triggers
- Creating telegram snapshots at triggering events



Open to all applications

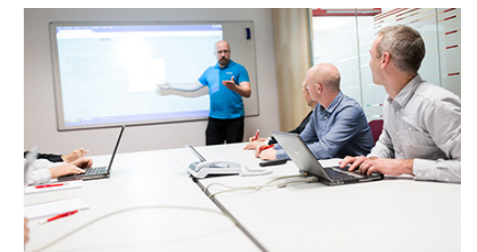
- Open driver API allows use of recording hardware in own measurement applications
- Out-of-the-box supported third-party software:
 - Wireshark
 - MECHATROLINK-III Analyzer
 - Sercos Monitor
 - TCN Ethernet StreamAnalyzer

netANALYZER connection diagram



Get to know the netANALYZER and netANALYZER Scope

- Online videos with many useful tips and tricks on YouTube
- Learn the handling of netANALYZER and netANALYZER Scope in our product trainings



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Product Information

Technical Data

Technical Data: NANL-B500G-RE

Operating Temperature
±0° C ... +55° C

Supply Voltage
nominal 24 V DC / 700 mA / 16,8 W, range +18 V ... +30 V DC

Dimensions (L x W x H)
173 × 115 × 62 mm

Form factor
Metal Box

Ethernet Channels
4x Ethernet 10/100BASE-TX RJ45, IEEE802.3 Ethernet II frame types

Digital Channels
4x digital IO 3.3 V / 24 V configurable

TAPs
2, integrated with zero-delay < 1 ns

Time Stamp
±5 ns measurement accuracy, 1 ns resolution

PC Interface
Gigabit-Ethernet 1000BASE-T RJ45

Recording interface for autonomous operation
USB 2.0 (hard disc or memory stick), max. 500 mA / external supply-data rate, approx. 50 % network load when recording on one TAP

System Requirements - PC/notebook specifications:
Intel-compatible CPU, approx. 2 GHz or faster (depending on the data volume to be analyzed), DirectX 9 compatible graphics device, 20 MB available on the hard drive for the netANALYZER software, plus to be recorded data

Technical Data: netANALYZER Scope

Recording history and signal quantity
Unlimited, only limited by the PC's memory

Signal type
Input & output process values, network load, frame jitters, custom telegram data, PROFINET events: alarms, cycle failures, device start up, station- and conversations-lists

Prerequisite for live recording
NANL-B500G-RE

Full version
Unlimited recording duration | Requires netANALYZER device with activated netANALYZER Scope license

Free evaluation version
Limited recording duration without quicktest function, can run with netANALYZER device without netANALYZER Scope license

Offline mode
Without netANALYZER device/netANALYZER Scope license, however stored recordings of any duration can be loaded

Trigger
Freely configurable complex trigger conditions (comparisons, boolean operations, signal changes)

Operating system
Windows 7, Windows 8, Windows 10

Project import
- EtherCAT: ENI, PROFINET: GSDML, EtherNet/IP: STUDIO 5000
- L5X+EDS and/or manual signal configuration, PCAP files

Note: All technical data may be changed without further notice.

Product Overview

NANL-B500G-RE	7313.100	netANALYZER Box Gigabit RTE
NANL-B500G-RE CASE	7313.102	Carrying case for netANALYZER Box
LIC/SCP/BS	8582.001	netANALYZER Scope base license, plus min. one addon
LIC/SCP/PN	8582.030	netANALYZER Scope add-on license, PROFINET process data and events
LIC/SCP/QTPN	8582.031	netANALYZER Scope add-on license, PROFINET quicktester
LIC/SCP/ECAT	8582.040	netANALYZER Scope add-on license, EtherCAT process data
LIC/SCP/CVF	8582.050	netANALYZER Scope add-on license, Custom value filters
LIC/SCP/PCAP	8582.070	netANALYZER Scope add-on license, PCAP import
LIC/SCP/EIP	8582.080	netANALYZER Scope add-on license, EtherNet/IP process data
LIC/SCP/SA	8582.060	netANALYZER add-on license, Autonomous operation NANL-B500G without PC



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