

netSWITCH

with Ethernet Port for SERCOS III

CONNECTED BY
netx

Coupling for SERCOS III Real-Time Ethernet to Standard Ethernet

- Connects SERCOS III with Standard Ethernet Network
- Simple Configuration and Status via Web Interface
- 64 KB Buffer Memory for Ethernet Telegrams

SERCOS
interface



netSWITCH for SERCOS III

The SERCOS III Real-Time Ethernet system provides deterministic jitter-free data transmission for controlling and synchronizing drives. Parallel to this and based on a time-slot basis, standard Ethernet telegrams can be transmitted via a NRT (Non-Real-Time) channel. These NRT telegrams must be buffered for retransmission on a standard Ethernet network. The netSWITCH provides this buffer connection between the synchronized SERCOS III network and standard Ethernet. Besides the two Ethernet ports for SERCOS III is one Ethernet port for connection to a notebook or other standard Ethernet capable devices.

netSWITCH

with Ethernet Port for SERCOS III

In the SERCOS III network, SERCOS III telegrams and Ethernet telegrams on the NRT channel are passing the netSWITCH. The Ethernet telegrams of the NRT channel are forwarded by the netSWITCH to the standard Ethernet port making these messages available to users outside the SERCOS III ring. Likewise standard Ethernet telegrams that are received by the netSWITCH are inserted into the NRT channel of the SERCOS III network for delivery to SERCOS III devices. The netSWITCH forwards the SERCOS III real time telegrams with a throughput time of 600 ns. NRT telegrams are processed according to the Store-and-Forward principle.

Configuration

For configuration, settings must be made to the time slot of the SERCOS III NRT channel (starting time t_6 and ending time t_7). This can be done using a web browser.

Status and Diagnostic

LEDs are available at the netSWITCH for control of communication and status of the device. Additional status and diagnostic information can also be read from the netSWITCH with the use of a web browser.

Technical Data

Parameter	Value
Data Transport	Forwarding
SERCOS III-Interface	
Controller	netX 500
Transmission Rate	100 MBit/s
Interface	100BASE-TX
Plug Connector	2x RJ45
Ethernet-Interface	
Controller	netX 500
Transmission Rate	10/100 MBit/s
Interface	10BASE-T / 100BASE-TX
Plug Connector	1x RJ45
Diagnostic Interface	Via Ethernet
Display	SYS, ACT, LINK

Parameter	Value
Frame Memory	64 KByte
Configuration	By Web Browser
Operating Voltage	18 ... 30 V / 120 mA @ 24 V
Plug Connector	Mini COMBICON 2-pole
Operating Temperature	0°C ... 50°C
Dimensions (L x W x H)	100 x 52 x 70 mm
Weight approx.	150 g
CE Sign	Yes
Emission	CISPR 11 Class A
Noise Immunity	EN 61131-2: 2003

Product Overview

Distribución: **ER-SOFT, S.A.** Email: er@er-soft.com, Tel: +34 916 408 408

Headquarters

Germany
Hilscher Gesellschaft für Systemautomation mbH
Rheinstrasse 15
65795 Hattersheim
Phone: +49 (0) 6190 9907-0
Fax: +49 (0) 6190 9907-50
E-Mail: info@hilscher.com
Web: www.hilscher.com

Subsidiaries

China
Hilscher Ges.f.Systemaut. mbH
Shanghai Representative Office
200010 Shanghai
Phone: +86 (0) 21-6355-5161
E-Mail: info@hilscher.cn

France
Hilscher France S.a.r.l.
69500 Bron
Phone: +33 (0) 4 72 37 98 40
E-Mail: info@hilscher.fr

Italy
Hilscher Italia srl
20090 Vimodrone (MI)
Phone: +39 02 25007068
E-Mail: info@hilscher.it

Japan
Hilscher Japan KK
Tokyo, 160-0022
Phone: +81 (0) 3-5362-0521
E-Mail: info@hilscher.jp

Switzerland
Hilscher Swiss GmbH
4500 Solothurn
Phone: +41 (0) 32 623 6633
E-Mail: info@hilscher.ch

Hilscher Swiss GmbH
Branch Office East Switzerland
Embedded Systems
9444 Diepoldsau
Phone: +41 (0) 71 737 7575
E-Mail: info@hilscher.ch

USA
Hilscher North America, Inc.
Lisle, IL 60532
Phone: +1 630-505-5301
E-Mail: info@hilscher.us

Distributors

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