

# netSWITCH

## The Ethernet Connection to 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.

**hilscher**  
COMPETENCE IN  
COMMUNICATION

# netSWITCH

## the Ethernet Connection to SERCOS III

### 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](mailto:info@hilscher.com)  
Web: [www.hilscher.com](http://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](mailto: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](mailto:info@hilscher.fr)

**India**  
Hilscher India Pvt. Ltd.  
New Delhi - 110 025  
Phone: +91 11 40515640  
E-Mail: [info@hilscher.in](mailto:info@hilscher.in)

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

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

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

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

### Distributors

**Australia**  
Fieldbus Specialists  
[www.fieldbus.com.au](http://www.fieldbus.com.au)

**Austria**  
VIPA Elektronik-Systeme GmbH  
[www.vipa.at](http://www.vipa.at)

**Belgium**  
TelereX N.V.  
[www.telereX-europe.com](http://www.telereX-europe.com)

**Brazil**  
SoftBrasil Automacao Ltda.  
[www.softbrasil.com.br](http://www.softbrasil.com.br)

**Czech Republic**  
ZPA-Industry a.s.  
[www.zpaindustry.cz](http://www.zpaindustry.cz)

**Denmark**  
Novotek Denmark A/S  
[www.novotek.dk](http://www.novotek.dk)

**Finland**  
Novotek Finland Oy  
[www.novotek.fi](http://www.novotek.fi)

**France**  
HIGH'COM  
[www.highcom.fr](http://www.highcom.fr)

**Korea**  
CREVIS Co.,LTD  
[www.crevis.co.kr](http://www.crevis.co.kr)

**Netherlands**  
TelereX Nederland B.V.  
[www.telereX-europe.com](http://www.telereX-europe.com)

**Norway**  
AD Elektronik AS  
[www.ade.no](http://www.ade.no)

**Poland**  
RACONROLS SP. z o.o.  
[www.racontrols.com.pl](http://www.racontrols.com.pl)

**Russia**  
ProSoft Ltd.  
[www.prosoft.ru](http://www.prosoft.ru)

**Singapore**  
Vector Info Tech Pte Ltd  
[www.vectorinfotech.com](http://www.vectorinfotech.com)

**South Africa**  
Innomatic  
[www.innomatic.co.za](http://www.innomatic.co.za)

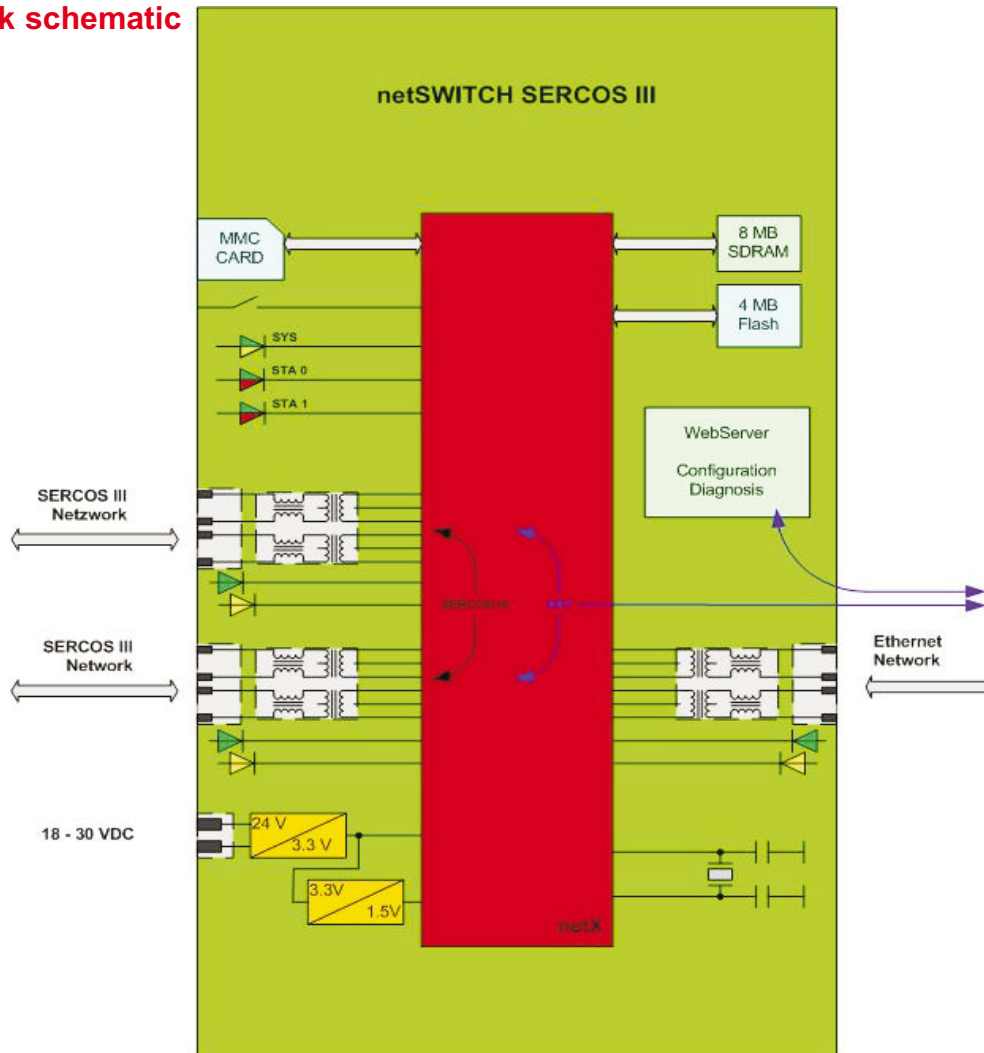
**Spain**  
Sistel Control S.L.  
[www.sistelcontrol.com](http://www.sistelcontrol.com)

Novatronic Sistemas S.L.  
[www.novatronicsistemas.com](http://www.novatronicsistemas.com)

**Sweden**  
Novotek Sverige AB  
[www.novotek.se](http://www.novotek.se)

**UK**  
Miles Industrial Electronics Ltd  
[www.milesie.co.uk](http://www.milesie.co.uk)

### Block schematic



### Technical Data

Parameter	Value
Data Transport	Forwarding
<b>SERCOS III-Interface</b>	
Controller	netX 500
Transmission Rate	100 MBit/s
Interface	100BASE-TX
Plug Connector	2x RJ45
<b>Ethernet-Interface</b>	
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

Article Designation	Article Number	Article
NS-S3-1NRT	1790.160	netSWITCH SERCOS III and one Ethernet Port