

# GigaSwitch V5 MED Family

## Contact

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## LANactive Managed Full Gigabit FTTO Switch

- Up to 3 Uplink Ports
- 4 Isolated User Ports (4 kV, 2 MOPP)
- Efficient Energy Management
- Memory Card optionally
- Wide Input Voltage Range 46...57V DC or 85...240V AC

## Description

Nexans LANactive GigaSwitch V5 MED series is optimized for the installation in an Fibre to the Office (FTTO) healthcare environment. The latest generation of FTTO switches is equipped with state-of-the-art network processing technology and provides enhanced performance, security and redundancy features and convenient management functionality.

### GigaSwitch with Galvanic Isolation

The medical version of the GigaSwitch is equipped with isolators for protection of connected IT equipment in healthcare environment. The integrated network isolators have a minimum withstand voltage level of 4 kV and 2 MOPP according to IEC / EN 60601-1. They prevent unwanted voltage differences between devices over the network cabling. The switches provide the necessary security for the entire system. Devices, which are classified as medical components, must fulfil higher requirements as in IEC 60950-1 (Safety of equipment information technology). Nexans GigaSwitch MED provides Ethernet connectivity for critical medical applications acc. to IEC/EN 60601 (requirements for medical devices).

### Snap-In Installation

The very compact design of the GigaSwitch allows a tool-less snap-in installation into the standard 45 mm cable duct format or floor boxes.

### Memory Card

Optionally, a memory card can be used to save the complete current configuration and firmware of the switch. Additionally, the memory can be delivered with its own MAC-address that will be used by the GigaSwitch.

### Switch Management with Client Server Architecture

The new management platform allows simple and secure configuration from a centralized location. Rapid Spanning Tree, RADIUS, prioritization, security, LLDP, LACP, IGMP, CDP, QinQ, diagnostics and SNMP traps are just some of the implemented features. In combination with Nexans Device Management software, NEXMAN, a larger number of switches can be managed and monitored at the same time. NEXMAN allows automatic distribution of master configurations and firmware updates.



Made in Germany

**LANactive**  
Switch to the future

**NEXMAN**  
Client/Controller Licence

## Standards

### IEC 60601-1

IEEE 802.3  
IEEE 802.3u  
IEEE 802.3ab  
IEEE 802.3z  
IEEE 802.3x  
IEEE 802.1AB  
IEEE 802.1D  
IEEE 802.1Q  
IEEE 802.1X  
IEEE 802.1AX  
IEEE 802.3ad



Real-Time OS  
Yes



Compact design  
45x90mm



Noiseless  
Yes



Fast installation  
Yes



Redundancy  
Yes



Operating temperature  
0 ... 45 °C



Electromagnetic shielding  
Yes

**Nexans**

# GigaSwitch V5 TP SFP-VI 230VAC MED

## GigaSwitch V5 SFP-2VI 230VAC MED

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### Features

Ordering information	GigaSwitch V5 TP SFP-VI 230VAC MED	GigaSwitch V5 SFP-2VI 230VAC MED
Article number	88303658	88303603
<b>Interfaces</b>		
User Ports (Twisted Pair)	4x 10/100/1000 Mbps	
Uplink Ports (SFP)	1x 100/1000 Mbps	2x 100/1000 Mbps
Uplink Ports (Twisted Pair)	1x 10/100/1000 Mbps	-
Rotatable Head Module	Yes	
<b>Diagnostic Functions (Interfaces)</b>		
Digital Diagnostics Monitoring Interface	Yes	
Twisted Pair Cable Diagnostic	Yes	
<b>General</b>		
Dimensions [W x H x D]	90mm x 45mm x 69mm	
Installation Depth	35mm	
Material	zinc diecasting / stainless steel	
Colour	Pure White, like RAL 9010	
Ambient Temperature	Operation: 0 ... 45 °C, Storage: -20 ... 85 °C	
Relative Humidity	20 - 90 % (non-condensing)	
Weight	290 g	
MTBF	> 750.000 h	
<b>Power Supply</b>		
Input Voltage	85...240V AC (typ. 230V AC or 110V AC)	
Power Consumption	3.9W (standby) ... 5.0W (typ.) ... 5.7W (fully connected)	
Connector	3-pin connector with plug-in screw terminal (up to 1.5 mm <sup>2</sup> ) / (L) (N) (PE)	
<b>Electrical Safety</b>		
Electrical safety	IEC/EN 60601-1-1, Medical Electrical Equipment Part 1: General requirements for safety; 1: Requirements for medical electrical systems; EN 60950	
Electromagnetic compatibility	IEC/EN 60601-1-2, Medical Electrical Equipment Part 2: General requirements for safety; 1: Electromagnetic compatibility - requirements and tests; EN 55022	
<b>Switching Parameters</b>		
Switching Procedure	Store-and-Forward, self-learning	
Max. Frame Size	9.600 Bytes (Support of Jumbo frames)	
MAC-Address Table	8.192 MAC-Addresses	
<b>Management</b>		
<b>On-Board High-Performance Management</b>		
IP-Address	IPv4, IPv6	
DHCP	DHCP, DHCPv6	
VLANs	Up to 256 Groups	
Web-Interface	HTTP, HTTPS	
Command Line Interface	SSH, Telnet	
SNMP	SNMPv1, v2c, v3	
Further Management Protocols	Syslog, LLDP, CDP	
Redundancy Protocols	STP, RSTP, MSTP, MRP	
Link Aggregation	LACP	
Firmware Update	Dual Firmware Image	
Configuration Button	Yes (configuration button deactivatable)	
Reset Button	Yes (configuration button deactivatable)	
Memory Card	Micro SD-Card, optionally with fixed MAC-Address	
Console Port	Yes, V.24	
I/O Interface	Free programmable function input with alarm functionality	

# GigaSwitch V5 TP SFP-VI 54VDC MED

## GigaSwitch V5 SFP-2VI 54VDC MED

### Contact

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### Features

Ordering information	GigaSwitch V5 TP SFP-VI 54VDC MED	GigaSwitch V5 SFP-2VI 54VDC MED
Article number	88303604	88303609
<b>Interfaces</b>		
User Ports (Twisted Pair)	4x 10/100/1000 Mbps	
Uplink Ports (SFP)	1x 100/1000 Mbps	2x 100/1000 Mbps
Uplink Ports (Twisted Pair)	1x 10/100/1000 Mbps	-
Rotatable Head Module	Yes	
<b>Diagnostic Functions (Interfaces)</b>		
Digital Diagnostics Monitoring Interface	Yes	
Twisted Pair Cable Diagnostic	Yes	
<b>General</b>		
Dimensions [W x H x D]	90mm x 45mm x 69mm	
Installation Depth	35mm	
Material	zinc diecasting / stainless steel	
Colour	Pure White, like RAL 9010	
Ambient Temperature	Operation: 0 ... 45 °C, Storage: -20 ... 85 °C	
Relative Humidity	20 - 90 % (non-condensing)	
Weight	290 g	
MTBF	> 750.000 h	
<b>Power Supply</b>		
Input Voltage	46...57V DC (typ. 54V DC)	
Power Consumption	4.9W (standby) ... 5.3W (typ.) ... 6.0W (fully connected)	
Connector	3-pin connector with plug-in screw terminal (up to 1.5 mm <sup>2</sup> ) / (L) (N) (PE)	
<b>Electrical Safety</b>		
Electrical safety	IEC/EN 60601-1-1, Medical Electrical Equipment Part 1: General requirements for safety; 1: Requirements for medical electrical systems; EN 60950	
Electromagnetic compatibility	IEC/EN 60601-1-2, Medical Electrical Equipment Part 2: General requirements for safety; 1: Electromagnetic compatibility - requirements and tests; EN 55022	
<b>Switching Parameters</b>		
Switching Procedure	Store-and-Forward, self-learning	
Max. Frame Size	9.600 Bytes (Support of Jumbo frames)	
MAC-Address Table	8.192 MAC-Addresses	
<b>Management</b>		
<b>On-Board High-Performance Management</b>		
IP-Address	IPv4, IPv6	
DHCP	DHCP, DHCPv6	
VLANs	Up to 256 Groups	
Web-Interface	HTTP, HTTPS	
Command Line Interface	SSH, Telnet	
SNMP	SNMPv1, v2c, v3	
Further Management Protocols	Syslog, LLDP, CDP	
Redundancy Protocols	STP, RSTP, MSTP, MRP	
Link Aggregation	LACP	
Firmware Update	Dual Firmware Image	
Configuration Button	Yes (configuration button deactivatable)	
Reset Button	Yes (configuration button deactivatable)	
Memory Card	Micro SD-Card, optionally with fixed MAC-Address	
Console Port	Yes, V.24	
I/O Interface	Free programmable function input with alarm functionality	

# GigaSwitch V5 TP(PD-F+) SFP-VI 54VDC MED

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## Features

### Ordering information

### GigaSwitch V5 TP(PD-F+) SFP-VI 54VDC MED

Article number 88303604

### Interfaces

User Ports (Twisted Pair) 4x 10/100/1000 Mbps

Uplink Ports (SFP) 1x 100/1000 Mbps

Uplink Ports (Twisted Pair) 1x 10/100/1000 Mbps

Rotatable Head Module Yes

### Diagnostic Functions (Interfaces)

Digital Diagnostics Monitoring Interface Yes

Twisted Pair Cable Diagnostic Yes

### General

Dimensions [W x H x D] 90mm x 45mm x 69mm

Installation Depth 35mm

Material zinc diecasting / stainless steel

Colour Pure White, like RAL 9010

Ambient Temperature Operation: 0 ... 45 °C, Storage: -20 ... 85 °C

Relative Humidity 20 - 90 % (non-condensing)

Weight 290 g

MTBF > 750.000 h

### Power Supply

Input Voltage PoE acc. to IEEE802.3at / 46...57V DC (typ. 54V DC)

Power Consumption 4.9W (standby) ... 5.3W (typ.) ... 6.0W (fully connected)

Connector 3-pin connector with plug-in screw terminal (up to 1.5 mm<sup>2</sup>) / (L) (N) (PE)

### Electrical Safety

Electrical safety IEC/EN 60601-1-1, Medical Electrical Equipment Part 1: General requirements for safety; 1: Requirements for medical electrical systems; EN 60950

Electromagnetic compatibility IEC/EN 60601-1-2, Medical Electrical Equipment Part 2: General requirements for safety; 1: Electromagnetic compatibility - requirements and tests; EN 55022

### Switching Parameters

Switching Procedure Store-and-Forward, self-learning

Max. Frame Size 9.600 Bytes (Support of Jumbo frames)

MAC-Address Table 8.192 MAC-Addresses

### Management

### On-Board High-Performance Management

IP-Address IPv4, IPv6

DHCP DHCP, DHCPv6

VLANs Up to 256 Groups

Web-Interface HTTP, HTTPS

Command Line Interface SSH, Telnet

SNMP SNMPv1, v2c, v3

Further Management Protocols Syslog, LLDP, CDP

Redundancy Protocols STP, RSTP, MSTP, MRP

Link Aggregation LACP

Firmware Update Dual Firmware Image

Configuration Button Yes (configuration button deactivatable)

Reset Button Yes (configuration button deactivatable)

Memory Card Micro SD-Card, optionally with fixed MAC-Address

Console Port Yes, V.24

I/O Interface Free programmable function input with alarm functionality