GigaSwitch V5 MED Family

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.

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

Features
- Real-Time OS
  - Yes
- Compact design
  - 45x90mm
- Noiseless
  - Yes
- Fast Installation
  - Yes
- Redundancy
  - Yes
- Operating temperature
  - 0 ... 45 °C
- Electromagnetic shielding
  - Yes

Made in Germany
## Features

### Ordering Information

<table>
<thead>
<tr>
<th>GigaSwitch V5 TP SFP-VI 230VAC MED</th>
<th>GigaSwitch V5 SFP-2VI 230VAC MED</th>
</tr>
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<tbody>
<tr>
<td>Article number</td>
<td>Article number</td>
</tr>
<tr>
<td>88303658</td>
<td>88303603</td>
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</table>

### 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 |

### 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: 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 mm²) / (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
GigaSwitch V5 TP SFP-VI 54VDC MED
GigaSwitch V5 SFP-2VI 54VDC MED

Features

Ordering Information

<table>
<thead>
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<th>GigaSwitch V5 SFP-2VI 54VDC MED</th>
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<td>Article number</td>
<td>88303604</td>
<td>88303609</td>
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Interfaces

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<td>Uplink Ports (SFP)</td>
<td>1x 100/1000 Mbps</td>
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<tr>
<td>Uplink Ports (Twisted Pair)</td>
<td>1x 10/100/1000 Mbps</td>
</tr>
<tr>
<td>Rotatable Head Module</td>
<td>Yes</td>
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Diagnostic Functions (Interfaces)

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<tr>
<td>Digital Diagnostics Monitoring Interface</td>
<td>Yes</td>
</tr>
<tr>
<td>Twisted Pair Cable Diagnostic</td>
<td>Yes</td>
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General

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<td>35mm</td>
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<tr>
<td>Material</td>
<td>zinc diecasting / stainless steel</td>
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<tr>
<td>Colour</td>
<td>Pure White, like RAL 9010</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>Operation: 0 ... 45 °C, Storage: -20 ... 85 °C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>20 - 90 % (non-condensing)</td>
</tr>
<tr>
<td>Weight</td>
<td>290 g</td>
</tr>
<tr>
<td>MTBF</td>
<td>&gt; 750.000 h</td>
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Power Supply

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<tbody>
<tr>
<td>Input Voltage</td>
<td>46...57V DC (typ. 54V DC)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>4.9W (standby) ... 5.3W (typ.) ... 6.0W (fully connected)</td>
</tr>
<tr>
<td>Connector</td>
<td>3-pin connector with plug-in screw terminal (up to 1.5 mm²) / (L) (N) (PE)</td>
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Electrical Safety

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Switching Parameters

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<tr>
<td>Switching Procedure</td>
<td>Store-and-Forward, self-learning</td>
</tr>
<tr>
<td>Max. Frame Size</td>
<td>9.600 Bytes (Support of Jumbo frames)</td>
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<tr>
<td>MAC-Address Table</td>
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Management

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<tr>
<td>IP-Address</td>
<td>IPv4, IPv6</td>
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<tr>
<td>DHCP</td>
<td>DHCP, DHCPv6</td>
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<td>VLANs</td>
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<tr>
<td>Firmware Update</td>
<td>Dual Firmware Image</td>
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<td>Configuration Button</td>
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## GigaSwitch V5 TP(PD-F+) SFP-VI 54VDC MED

### 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
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- **Rotatable Head Module**: Yes

#### Diagnostic Functions (Interfaces)
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#### General
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- **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 mm²) / (L) (N) (PE)

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#### Management
- **On-Board High-Performance Management**
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  - **DHCP**: DHCP, DHCPv6
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