

# GigaSwitch V5 6 Port 54VDC MED Series

## Contact

Nexans LAN Systems  
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## LANactive 6 Port Managed Full Gigabit Ethernet FTTO Switch

- 2 Uplink Ports (2x SFP or 1x SFP and 1x RJ45)
- 4 Isolated User Ports (4kV and 2MOPP)
- Efficient Energy Management
- Memory Card Slot
- Input Voltage Range 46 ... 57V DC

## Description

Nexans LANactive GigaSwitch V5 MED series is designed for the installation in Fibre to the Office (FTTO) networks. The latest generation of FTTO switches is equipped with a state-of-the-art network processor and provides enhanced performance, security and redundancy functionality.

### Galvanic Isolation

The GigaSwitch V5 MED series is equipped with integrated network isolators at the user ports to have a minimum withstand voltage of 4 kV and 2 MOPP according to EN60601-1. They prevent unwanted voltage differences between devices over the network cabling connected to the user ports.

### 6 Port Version

The GigaSwitch version with six ports is part of the latest V5 series. This special variant with two uplink ports allows a redundant connection of the GigaSwitch via fibre optic. All uplinks support Link Aggregation for providing redundancy and double bandwidth up to 2Gbps.

### Snap-In Installation

The very compact design of the GigaSwitch allows a tool-less snap-in installation into the standard 45 mm cable duct systems or floor boxes without special mounting accessories.

### Memory Card

The optional memory card automatically saves the complete current configuration and firmware of the device. In case of failure, this feature allows an easy exchange of the hardware without additional configuration. In addition, each memory card can be delivered with its own MAC address that is adopted by the switch.

### Switch Management and Zero-Touch Configuration

Nexans Device Manager NEXMAN allows a simple and secure configuration of all device parameter of the GigaSwitch series. With NEXMAN a larger number of GigaSwitches can be managed and monitored at the same time. In combination with Nexans Zero-Touch Configuration, NEXMAN allows automatic distribution of configurations and firmware updates. A pre-configuration of the switches is not necessary.



Made in Germany

**LANactive**  
Switch to the future

**NEXMAN**  
Client-Controller

## Standards

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**

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## Hardware Features

| Ordering Information                     | GigaSwitch V5 TP SFP-VI 54VDC   | GigaSwitch V5 SFP-2VI 54VDC |
|--|---|-----------------------------|
| Article Number                           | 88303604  | 88303609                    |
| <b>Interfaces</b>                        |   |                             |
| User Ports (RJ45)                        | 4x 1000Base-T   |                             |
| Uplink Ports (SFP)                       | 1x 100/1000Mbps   | 2x 100/1000Mbps             |
| Uplink Ports (RJ45)                      | 1x 1000Base-T   | -                           |
| RJ45 Ports                               | Auto-Negotiation, MDI/MDI-X Auto-Cross Over and Auto-Polarity                           |                             |
| Eco Mode for RJ45 Ports                  | Yes   |                             |
| 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                                   | 290g  |                             |
| MTBF                                     | > 750,000h  |                             |
| <b>Power Supply</b>                      |   |                             |
| Input Voltage                            | 46 ... 57V DC (typ. 54V DC)   |                             |
| Power Consumption                        | 4.9W (standby) ... 5.3W (typ.) ... 6.0W (fully connected)                               |                             |
| Heat Output                              | 21Btu(IT)/h   |                             |
| Connector                                | 3-pin connector with plug-in screw terminal (up to 2.5mm <sup>2</sup> ) / (+) (-) (FPE) |                             |
| <b>CE - Conformity</b>                   |   |                             |
| Electro Magnetic Capability Directive    | 2014/30/EU  |                             |
| Low Voltage Directive                    | -   |                             |
| RoHS 2                                   | 2011/65/EU  |                             |

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## Software Features

### Switching Parameters

|                            |   |
|----------------------------|---|
| Switching Type             | Store-and-Forward, self-learning  |
| Max. Frame Size            | 9.600Bytes (Support of Jumbo frames)  |
| Packet Buffer              | 512kBytes   |
| Latency (RFC1242)          | 100Mbps / 64Byte (FIFO/LIFO) 9µs / 9.3µs<br>100Mbps / 1518Byte (FIFO/LIFO) 125µs / 4µs<br>1000Mbps / 64Byte (FIFO/LIFO) 2.7µs / 2.2µs<br>1000Mbps / 1518Byte (FIFO/LIFO) 15µs / 2.5µs |
| MAC-Address Table          | 8.192 MAC-Addresses   |
| VLANs                      | IEEE802.1q with up to 256 Groups  |
| Quality of Service Layer 2 | IEEE802.1p Class of Service (4 Queues per Port)   |
| Quality of Service Layer 3 | RFC2474/3168 DSCP (4 Queues per Port)   |
| Bandwidth Limitation       | Bitrate and Number of Packets   |
| Fabric Attach              | Basic Fabric Attach Client Support  |

### Management

|                              |   |
|------------------------------|---|
| LEDs                         | Management, Port Status and Activity, Memory Card |
| Zero-Touch Configuration     | Via NEXMAN Controller                             |
| IP-Address                   | IPv4, IPv6  |
| DHCP-Client                  | DHCP, DHCPv6                                      |
| DHCP Relay Agent             | Yes   |
| File Transfer                | TFTP, SCP   |
| Console Port                 | V.24 with Nexans Console Cable                    |
| Web-Interface                | HTTP, HTTPS                                       |
| Command Line Interface       | SSH, Telnet                                       |
| SNMP                         | SNMPv1, v2c, v3                                   |
| Further Management Protocols | Syslog, LLDP, LLDP-MED, CDP                       |
| Time Synchronisation         | SNTP  |
| Port Statistics              | Detailed per Port                                 |

### Redundancy

|                      |                      |
|----------------------|----------------------|
| Redundancy Protocols | STP, RSTP, MSTP, MRP |
| Link Aggregation     | LACP                 |

### Security

|                              |  |
|------------------------------|--|
| Password Protection          | Two Access Levels (R/W or R/O)                   |
| Authentication via Radius    | CLI and NEXMAN                                   |
| Authentication via TACACS+   | CLI and NEXMAN                                   |
| ACL for Management Interface | Up to 16 Access Control Lists                    |
| Portsecurity via MAC-Address | Up to 3 predefined MAC-Addresses                 |
| Portsecurity via Radius      | IEEE802.1x                                       |
| DHCP Snooping                | Yes  |
| Loop and Broadcast Limiter   | Yes  |
| 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 |

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## Dimensions

