

GigaSwitch V5 7 Port 54VDC MED Series

Contact

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LANactive 7 Port Managed Full Gigabit Ethernet FTTO Switch

- 3 Uplink Ports (2x SFP and 1x RJ45)
- 4 Isolated User Ports (4kV and 2MOPP)
- Efficient Energy Management
- Memory Card Slot
- Input Voltage Range 46 ... 58V 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.

7 Port Version

The GigaSwitch version with seven ports is part of the latest V5 series. This special variant with three uplink ports allows a redundant connection of the GigaSwitch via fibre optic. The RJ45 uplink can be used for connecting an additional Wireless LAN Access Point. 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

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



PoE/PoE+
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(PSE+) SFP-2VI 54VDC MED	GigaSwitch V5 TP SFP-2VI 54VDC MED
Article Number	88303611	88303612
Interfaces		
User Ports (RJ45)	4x 1000Base-T	
Uplink Ports (SFP)	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	
Power over Ethernet		
Number of PoE User Ports	-	
Number of PoE Uplink Ports	1x PSE(PoE+) acc. to IEEE802.3at	-
PoE Mode	30W per Port, Mode A, Pin 1-2/3-6	-
Max. PoE power budget	30W	-
Diagnostic Functions (Interfaces)		
Digital Diagnostics Monitoring Interface	Yes	
Twisted Pair Cable Diagnostic	Yes	
General		
Dimensions [W x H x D]	96mm 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	
Power Supply		
Input Voltage	46 ... 57V DC (typ. 54V DC)	
Power Consumption	3.9W (standby) ... 4.3W (typ.) ... 5.5W (fully connected)	
Heat Output	19Btu(IT)/h	
Connector	3-pin connector with plug-in screw terminal (up to 2.5mm ²) / (+) (-) (FPE)	
CE - Conformity		
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 100Mbps / 1518Byte (FIFO/LIFO) 125µs / 4µs 1000Mbps / 64Byte (FIFO/LIFO) 2.7µs / 2.2µs 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

