GigaSwitch V5 6 Port 54VDC MED Series

Contact

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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 GigaSwitche 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 GigaSwich series. With NEXMAN a larger number of Gi-gaSwitches 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.



Real-Time OS

Yes



Compact design

45x90mm



Noiseless

Yes



Yes

Fast Installation

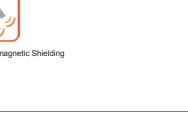


Redundancy **Yes**





Operating Temperature Electromagnetic Shielding 0 ... 45 °C Yes





LANactive Switch to the future



Standards

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

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Hardware Features

Ordering Information	GigaSwitch V5 TP SFP-VI 54VDC	GigaSwitch V5 SFP-2VI 54VDC
Article Number	88303604	88303609
Interfaces		
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	
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	290g	
MTBF	> 750,00	00h
Power Supply		
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 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 100Mpbs / 1518Byte (FIFO/LIFO) 125µs / 4µs 1000Mbps / 64Byte (FIFO/LIFO) 2.7µs / 2.2µs 1000Mpbs / 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	On-Board High-Performance 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





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