Contact

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LANactive 7 Port Full Managed Gigabit Ethernet Switch

- 3 Uplink Ports (2x SFP and 1x RJ45)
- Robust Metal Housing and Compact Hardware Design
- Efficient Energy Management
- Memory Card Slot
- Input voltage range 46 ... 57V DC

Description

Nexans LANactive GigaSwitch V5 IND series is designed for the installation in industrial environments. The latest generation of switches is equipped with a state-of-the-art network processor and provides enhanced performance, security and redundancy functionality.

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 GigaSwitche 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 and DIN-Rail 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. The special mounting clip allows also a DIN-Rail installation.

Power over Ethernet

Up to 5x connected Ethernet devices can be supplied with Power over Ethernet. According to the latest IEEE 802.3at (PoE+) standard, up to 30 watts per port are available for each connected device, with total budget of 150 watts.

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





Standards

IEEE 802.3 IEEE 802.3u

IEEE 802.3ab

IEEE 802.3af

IEEE 802.3at

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+



Compact designation 45x90mm



Noiseless Yes



Fast Installation



Redundancy Yes



Operating Temperature -25 ... 65 °C



Electromagnetic Shielding



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Hardware Features

Ordering Information	GigaSwitch V5 TP(PSE+) SFP-2VI 54VDC IND	GigaSwitch V5 TP SFP-2VI 54VDC IND
Article Number	88303960	88303965
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	
Digital Diagnostics Monitoring (SFP)	Yes	
Twisted Pair Cable Diagnostic	Yes	
Rotatable Head Module	Yes	
Power over Ethernet		
Number of PoE User Ports	4x PSE(PoE+) acc. to IEEE802.3at	
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	150W	120W
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: -25 65°C, Storage: -25 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	4.4W typical, 6.2V	/ max.
Heat Output	22Btu(IT)/h	
Connector	3-pin connector (up to 2.5mm²) / (+) (-) (FPE)	
CE - Conformity		
Electro Magnetic Capability Directive	2014/30/EU	
Low Voltage Directive	-	
RoHS 2	2011/65/EU	
Engineering Standards	EN 62368-1, EN 55032, EN 61	000-6-2, EN 50581



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Software Features

Switching Parameters

Switching Type Store-and-Forward, self-learning
Switching Capacity 20Gbps, non-blocking
Packet Forwarding Rate 2x 1.488Mpps per port

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
Energy Efficient Ethernet IEEE802.3az

Flow Control IEEE802.3x
Fabric Attach Basic Fabric Attach Clie

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Management On-Board High-Performance Management

LEDs Management, Port Status and Activity, Memory Card

Zero-Touch Configuration Via LANactive Manager 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, V.24

Scripting Yes

SNMP SNMPv1, v2c, v3
Syslog Yes

Discovery Protocols LLDP (IEEE802.1AB), LLDP-MED (ANSI/TIA-1057), 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 and TACACS+ CLI and LANactive Manager

Access Control List (ACL)

ACL for Management Interface

Portsecurity via MAC-Address

Portsecurity via Radius

Layer 2 and Layer 3

Up to 16 Access Control Lists

Up to 3 predefined MAC-Addresses

Portsecurity via Radius

IEEE802.1x with MAC Bypass

DHCP Snooping Yes
Loop and Broadcast Limiter Yes

Firmware Update Dual Firmware Image
Configuration-/Reset Button Yes / Yes

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



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Dimensions





