

GigaSwitch V5 TP(PD-F+) SFP-VI 54VDC

Contact

Nexans LAN Systems
Tel.: +49 (0) 2166 27 2220
sales.ans@nexans.com

LANactive 6 Port Managed Full Gigabit Ethernet FTTO Switch

- 2 Uplink Ports (1x SFP and 1x RJ45)
- Powered Device - remote powering via Power over Ethernet
- Power over Ethernet (PoE+), up to 120Watts
- Efficient Energy Management
- Memory Card Slot
- Input Voltage Range 46 ... 57V DC

Description

Nexans LANactive GigaSwitch V5 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.

6 Port Version

The GigaSwitch version with six ports is part of the latest V5 series. This special variant can be powered via Power over Ethernet via the RJ45 uplink. 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.

Power over Ethernet

Up to 4x 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 120 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 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 802.3af
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+
Yes



Compact design
45x90mm



Noiseless
Yes



Fast installation
Yes



Redundancy
Yes



Operating temperature
0 ... 45 °C



Electromagnetic shielding
Yes

Nexans

GigaSwitch V5 TP(PD-F+) SFP-VI 54VDC

Contact

Nexans LAN Systems
Tel.: +49 (0) 2166 27 2220
sales.ans@nexans.com

Hardware Features

Ordering Information	GigaSwitch V5 TP(PD-F+) SFP-VI 54VDC
Article Number	88303981
Interfaces	
User Ports (RJ45)	4x 1000Base-T
Uplink Ports (SFP)	1x 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	4x PSE (PoE+) acc. to IEEE 802.3at
Number of PoE Uplink Ports	1x PD (Powered Device) according to IEEE802.at
PoE Mode	30W per Port, Mode A, Pin 1-2/3-6
Max. PoE power budget with ext. PS	120W
Max. PoE power budget as PD	19.5W
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	> 750,000h
Power Supply	
Input Voltage	PoE acc. to IEEE802.3at or 46 ... 57V DC (typ. 54V DC)
Power Consumption	4.9W (standby) ... 5.3W (typ.) ... 6.0W (fully connected)
Heat Output	21 Btu(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

GigaSwitch V5 TP(PD-F+) SFP-VI 54VDC

Contact

Nexans LAN Systems
Tel.: +49 (0) 2166 27 2220
sales.ans@nexans.com

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

GigaSwitch V5 TP(PD-F+) SFP-VI 54VDC

Contact
Nexans LAN Systems
Tel.: +49 (0) 2166 27 2220
sales.ans@nexans.com

Dimensions

