

GigaSwitch 64x Desk V5 Series

Contact

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LANactive 6 Port Managed Full Gigabit FTTO Desk Switch

- 2 Uplink Ports (1x SFP, 1x TP or 2x SFP)
- Power over Ethernet (PoE+), up to 120W
- Efficient Energy Management
- Memory Card Slot
- Wide input voltage range 46...57V DC

Description

Nexans LANactive GigaSwitch 64x Desk series enables the secure, switched Gigabit Ethernet networks in the Fibre to the Office (FTTO) environment. The latest generation of FTTO switches is equipped with state-of-the-art processor technology with real-time support and provides enhanced performance, security, redundancy and convenient management functionality.

6 port version

The 6 port GigaSwitch is a part of the latest GigaSwitch V5 series. This special variant with an SFP and Twisted Pair uplink interface allows redundant connections of the switches via the RJ45 port on the back side of the switch. The version with two SFP ports supports link aggregation for providing double bandwidth up to 2Gbps.

Compact design

The very compact and fan-less design of the switch allows easy positioning and integration of systems in and on desks, columns and walls. The GiagaSwitche is powered via an external compact power supply unit.

Power Source Equipment (PSE+)

Thanks to the implemented Power over Ethernet (PoE+) functionalities, devices like VoIP-Phones, Wireless-Access-Points and IP-Cameras can be directly supplied with power from the switch according to IEEE802.3at. The Power over Ethernet functionality can be parameterized, controlled and monitored via management.

Memory Card

The optional memory card automatically save and storage the complete current configuration and firmware of the device. In addition, each memory card has its own MAC address.

Switch Management with Client Server Architecture

The new management platform allows simple and secure configuration from a centralized location. Rapid Spanning Tree, RADIUS, prioritization, security, LLDP, LACP, IGMP, CDP, QinQ, diagnostics and SNMP traps are just some of the implemented features. In combination with Nexans Device Management software, NEXMAN, a larger number of switches can be managed and monitored at the same time. NEXMAN allows automatic distribution of master configurations and firmware updates.



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
148x24x118mm



Noiseless
Yes



Fast Installation
Yes



Redundancy
Yes



Operating Temperature
0 ... 45 °C



Electromagnetic Shielding
Yes

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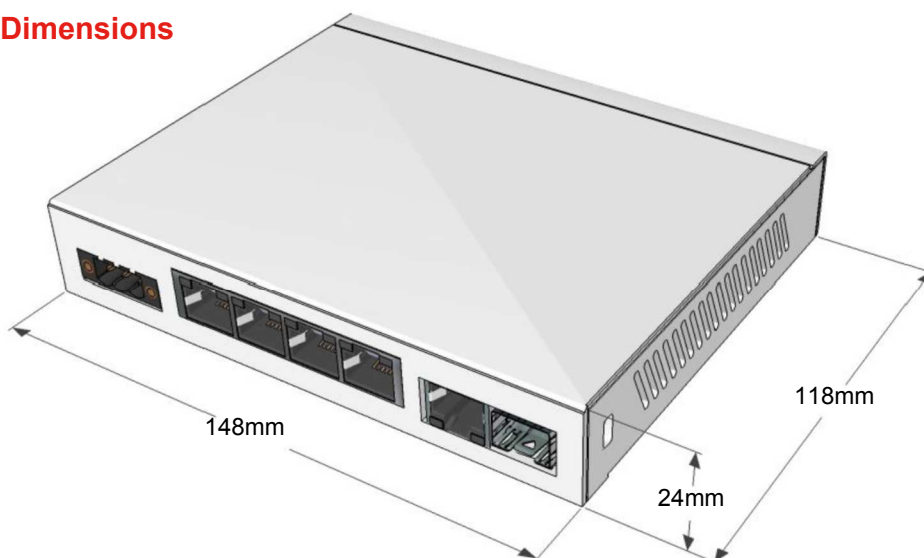
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Hardware Features

Ordering Information	GigaSwitch 641 Desk V5	GigaSwitch 642 Desk V5
Article Number	88303652	88303653
Interfaces		
User Ports (Twisted Pair)	4x 10/100/1000Mbps	
Uplink Ports (SFP)	1x 100/1000Mbps	2x 100/1000Mbps
Uplink Ports (Twisted Pair)	1x 10/100/1000Mbps	-
Twisted Pair Ports	Auto-Negotiation, MDI/MDI-X Auto-Cross Over and Auto-Polarity	
Eco Mode or Twisted Pair Ports	Yes	
Power over Ethernet		
Number of PoE User Ports	4x PSE (PoE+) acc. To IEEE 802.3at	
Number of PoE Uplink Ports	-	
PoE Mode	30W per Port, Mode A, Pin 1-2/3-6	
Max. PoE power budget	120W	
Diagnostic Functions (Interfaces)		
Digital Diagnostics Monitoring Interface	Yes	
Twisted Pair Cable Diagnostic	Yes	
General		
Dimensions [W x H x D]	148mm x 24mm x 118mm	
Material	Metal case	
Colour	Pure White, like RAL 9010	
Ambient Temperature	Operation: 0 ... 45°C, Storage: -20 ... 85°C	
Relative Humidity	20 - 90% (non-condensing)	
Weight	550g	
MTBF	> 750,000h	
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)	

Dimensions



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Software Features

Switching Parameters

Switching Type	Store-and-Forward, self-learning
Max. Frame Size	9.600 Bytes (Support of Jumbo frames)
Packet Buffer	512 kBytes
Latency (RFC1242)	100 Mbps / 64 Byte (FIFO/LIFO) 9µs / 9.3µs 100 Mbps / 1518 Byte (FIFO/LIFO) 125µs / 4µs 1000 Mbps / 64 Byte (FIFO/LIFO) 2.7µs / 2.2µs 1000 Mbps / 1518 Byte (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