

GigaSwitch V5 2TP SFP-VI 54VDC Series

LANactive 7 Port Managed Full Gigabit Ethernet FTTO Switch

- 3 Uplink Ports (1x SFP and 2x RJ45)
- Powered Device - remote powering via Power over Ethernet
- Power over Ethernet (PoE+), up to 150Watts
- Efficient Energy Management
- Memory Card Slot
- Input Voltage Range 46 ... 57V DC

Description

Aginode 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.

7 Port Version

The GigaSwitch version with seven ports is part of the latest V5 series. This special variant with three uplink ports has two RJ45 and one SFP uplinks. Both RJ45 uplinks have Power over Ethernet functionality. One version with 1x PD and 1x PSE uplink can be powered from central side and one with 2x PSE to power further clients.

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 6x 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

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



LANactive

Standards

IEEE 802.3
IEEE 802.3u
IEEE 802.3ab
IEEE 802.3af
IEEE 802.3at
IEEE802.3az
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 T°
0 ... 45 °C



Electromagnetic shielding
Yes

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Hardware Features

Ordering Information	GigaSwitch V5 2TP(PSE+) SFP-VI 54VDC	GigaSwitch V5 2TP(PD-F+) SFP-VI 54VDC	GigaSwitch V5 2TP SFP-VI 54VDC
Article Number	1316192	1316184	1316193
Interfaces			
User Ports (RJ45)		4x 1000Base-T	
Uplink Ports (SFP)		1x 100/1000Mbps	
Uplink Ports (RJ45)		2x 1000Base-T	
RJ45 Ports	Auto-Negotiation, MDI/MDI-X Auto-Cross Over and Auto-Polarity		
Digital Diagnostics Monitoring Interface		Yes	
Twisted Pair Cable Diagnostic		Yes	
Rotatable Head Module		Yes	
Memory Card	micro SD-Card, optionally with fixed MAC-Address		
Power over Ethernet			
Number of PoE User Ports		4x PSE (PoE+) acc. to IEEE 802.3at	
Number of PoE Uplink Ports	2x PSE (PoE+) according to IEEE802.at	1x PD (Powered Device) according to IEEE802.at 1x PSE (PoE+) according to IEEE802.at	-
PoE Mode		30W per Port, Mode A, Pin 1-2/3-6	
Max. PoE power budget with ext. PS		150W	120W
Max. PoE power budget as PD	-	19.5W	-
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	46 ... 57V DC (typ. 54V DC)	PoE acc. to IEEE802.3at or 46 ... 57V DC (typ. 54V DC)	46 ... 57V DC (typ. 54V DC)
Power Consumption		4.4W typ., 6.5W max.	
Heat Output		23 Btu(IT)/h	
Connector		3-pin connector (up to 2.5mm ²) / (+) (-) (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 55024, EN 50581	

Switch and 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 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
Fabric Attach	Basic Fabric Attach Client Support

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 Aginode 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)	Layer 2 and Layer 3
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 with MAC Bypass
DHCP Snooping	Yes
Loop and Broadcast Limiter	Yes
Firmware Update	Dual Firmware Image
Configuration-/Reset Button	Yes / Yes

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Dimensions

