

XGigaSwitch V6 7 Port 54VDC Series

Contact

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LANactive 7 Port 10G Managed FTTO Switch

- 3 Uplink Ports (2x SFP+ and 1x 10GBase-T or 3xSFP+)
- 4 User Ports (4x 1000Base-T)
- Power over Ethernet (PoE++) up to 60 Watts per port
- Energy Efficient Ethernet
- Memory Card Slot
- Wide Input Voltage Range 46 ... 57V DC (typ. 54V DC)

Description

Aginode LANactive XGigaSwitch V6 series is designed for the installation in Fibre to the Office (FTTO) networks. The latest generation of FTTO switches is equipped with three 10 Gigabit Fibre uplinks and provides enhanced performance, security and redundancy functionality.

Interfaces

The XGigaSwitch has four user ports connecting terminal devices like computer, IP Phones or printer. It has one additional RJ45 uplink port supporting 10 Gigabit to connect Wireless LAN Access Points of the latest generation.

Snap-In Installation

The very compact design of the XGigaSwitch 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

The latest Power over Ethernet standard IEEE802.3bt Type 3 enables the remote powering with up to 60W per port. Equipment like Wireless LAN Access Points, IP-Cameras Thin-Clients or Smart Building Systems can be supplied with power from the switch directly. The Power over Ethernet functionality can be parameterized, controlled and monitored via management.

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 XGigaSwitch series. With the LANactive Manager a larger number of XGigaSwitches can be managed and monitored at the same time. In combination with Aginode Zero-Touch Configuration, Aginodes LANactive Manager 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

Standards

IEEE 802.3
IEEE 802.3u
IEEE 802.3ab
IEEE 802.3bt
IEEE 802.3bz
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+/PoE++
Yes



Compact design
Yes



Noiseless
Yes



Fast installation
Yes



Redundancy
Yes



Operating temperature
0 ... 45 °C



Electromagnetic shielding
Yes

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Hardware Features

Ordering Information	XGigaSwitch V6 TP(PSE++) 2SFP+ 54V DC	XGigaSwitch V6 3SFP+ 54V DC
Article Number	88316722	88316723
Switching Type	Store-and-Forward, self-learning	
Non-blocking Switching Capacity	68Gbps	
Max. Frame Size	10,240Bytes	
Packet Buffer	256kBytes	
MAC-Address Table	16k	
Interfaces		
User Ports (RJ45)	4x 1000Base-T	
Uplink Ports (SFP+)	2x 1/10Gbps	3x 1/10Gbps
Uplink Ports (RJ45)	1x 10GBase-T	-
RJ45 Ports	Auto-Negotiation, MDI/MDI-X Auto-Cross Over and Auto-Polarity	
Eco Mode for RJ45 Ports	Yes	
Power over Ethernet (optional)		
Number of PoE User Ports	4x PSE(PoE+) acc. to IEEE802.3at,	
Number of PoE Uplink Ports	1x PSE(PoE++) acc. to IEEE802.3bt,	-
PoE Mode	PoE+: Up to 30W per Port, Mode A, 2-Pair 1-2/3-6 PoE++: Up to 60W per Port, 4-Pair 1-2/3-6/4-5/7-8	
Max. PoE power budget	150W	
Diagnostic Functions (Interfaces)		
Digital Diagnostics Monitoring Interface	Yes	
Twisted Pair Cable Diagnostic	Yes	
General		
Dimensions [W x H x D]	90mm x 45 mm x 69mm	
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	300g	
MTBF	> 500,000h	
Power Supply		
Input Voltage	46 ... 57V DC (typ. 54V DC)	
Power Consumption	6W (typ.) 7,7W (max.)	5,4W (typ.) 7,1W (max.)
Heat Output	27Btu(IT)/h	25Btu(IT)/h
Connector	3-pin connector with plug-in screw terminal (up to 2.5mm ²) / (+) (-) (FG)	
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	

Software Features

Switching Parameters

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 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, NTP
Port Statistics	Detailed per Port

Redundancy

Redundancy Protocols	STP, RSTP, MSTP, MRP
Link Aggregation	LACP, Static

Security

Password Protection	Two Access Levels (R/W or R/O)
Authentication via Radius and TACACS+	CLI and LANactive Manager
ACL for Management Interface	Up to 16 Access Control Lists
Portsecurity via MAC-Address	Up to 30 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 with own MAC-Address (optionally)

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Dimensions

