

XGigaSwitch DICE 8TP 2SFP+

LANactive 10G/MultiGigabit Ethernet Managed Switch

- 2 Uplink Ports (SFP+) and 8 User Ports (RJ45)
- Power over Ethernet (PoE++) up to 90Watts per port
- Energy Efficient Ethernet
- Memory Card Slot
- Wide Input Voltage Range 46 ... 57V DC
or 90 ... 264V AC



Made in Germany

Description

The new LANactive XGigaSwitch is optimized for supporting Wireless LAN infrastructures. Based on MultiGigabit copper and 10 Gigabit SFP+ interfaces the switch is able to support the bandwidth required by the latest Wireless LAN standards.

Access Ports

The XGigaSwitch has eight User Ports connecting Wireless LAN Access Points, IP Cameras, Connected Lighting or Smart Building Systems. Four Access Ports supporting MultiGigabit to avoid any bottleneck with the latest WLAN technology standards.

Ceiling Installation

A very compact design allows a smart ceiling installation. In combination with the fan less design the operation without noise is guaranteed. A separated power supply allows a flexible support of all power budgets.

Power over Ethernet

The latest Power over Ethernet standard IEEE802.3bt enables the remote powering with up to 90W per port. Equipment like Wireless LAN Access Points, IP-Cameras, Connected Lighting 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, 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
IEEE802.3az
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 T°
0 ... 45 °C



Electromagnetic shielding
Yes

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XGigaSwitch DICE 8TP 2SFP+

Hardware Features

Ordering Information	XGigaSwitch 8TP 2SFP+ AC	XGigaSwitch 8TP 2SFP+ DC
Article Number	908792	908790
Interfaces		
User Ports (RJ45)	4x 1000Base-T and 4x 2.5GBase-T	
Uplink Ports (SFP+)	2x 1/10Gbps	
Uplink Ports (RJ45)	-	
RJ45 Ports	Auto-Negotiation, MDI/MDI-X Auto-Cross Over and Auto-Polarity	
Eco Mode for RJ45 Ports	Yes	
Function Input	1x Input with a voltage range of 12 ... 60V DC	
Function Output	1x Potential-free output for switching of max.	
Power over Ethernet (optional)		
Number of PoE User Ports	8x PSE(PoE++) acc. to IEEE802.3bt, Type 3&4	
Number of PoE Uplink Ports	-	
PoE Mode	Up to 90W per Port, 4-Pair 1-2/3-6/4-5/7-8	
Max. PoE power budget	240W	500W
Diagnostic Functions (Interfaces)		
Digital Diagnostics Monitoring Interface	Yes	
Twisted Pair Cable Diagnostic	Yes	
General		
Dimensions [W x H x D]	345mm x 53 mm x 170mm	
Material	Aluminium diecasting	
Colour	Deep Black, like RAL 9005	
Ambient Temperature	Operation: 0 ... 45°C, Storage: -20 ... 85°C	
Relative Humidity	20 ... 90% (non-condensing)	
Weight	2,900g	2,500g
MTBF	> 500,000h	
Power Supply		
Input Voltage	90 ... 264V AC (typ.230V AC)	46 ... 57V DC (typ. 54V DC)
Inrush Current	40A @ 115V AC, 60A @ 230V AC	-
Power Consumption (without PoE load)	14.3W (typ.) 18.2W (max.)	13W (typ.) 16.5W (max.)
Heat Output	49Btu(IT)/h	45Btu(IT)/h
Connector	C14 connector (L, N, PE)	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	2014/35/EU	-
RoHS 2	2011/65/EU	
Engineering Standards	EN 62368-1, EN 55032, EN 55024, EN 50581	

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Software Features

Switching Parameters

Switching Type	Store-and-Forward, self-learning
Switching Capacity, non-blocking	68Gbps
Packet Forwarding Rate per Port	2x 1.488Mpps @1G 2x 3.720Mpps @2.5G 2x14.880Mpps @10G
Max. Frame Size	9.600Bytes (Support of Jumbo frames)
Packet Buffer	8MBytes
MAC-Address Table	16,384 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
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	CLI and LANactive Controller
Authentication via TACACS+	CLI and LANactive Controller
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
Set Button	Yes (can be configured)
Memory Card	SD-Card, optionally with fixed MAC-Address

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Dimensions



Scope of Delivery and Accessories

Product	XGigaSwitch DICE 8TP 2SFP+ AC	XGigaSwitch DICE 8TP 2SFP+ DC
Article Number	908792	908790
Power Cable/Connector	1,5m with Power Connector (CEE 7/4)	3-pin connector with plug-in screw terminal

Accessories

903540	iOption PoE+ 6/8P-30W, 8x PoE+ (IEEE802.3at)
908794	iOption PoE++ 6/8P-90W, 8x PoE++ (IEEE802.3bt)
903530	SD Memory Card with MAC-Address