Contact

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LANactive Industry 10 port managed Full Gigabit Ethernet Switch

- 10 ports in total, variable number of SFP ports (2, 4 or 8)
- Up to 8 PoE+ ports with max. 240W power budget
- Up to 6 PoE++ ports with max. 540W power budget
- Built-in I/O module with 2 input and 2 output ports
- Wide operating temperature range, -40 ... +85°C
- Wide input power range, 18 ... 60V DC

Description

Aginode managed Industrial Ethernet iGigaSwitch 10xx E+ HW5 series is part of the LANactive Industry product portfolio and designed for installing a robust and reliable networks in harsh environments.

The LANactive Industry iGigaSwitch 10xx series is designed to provide a maximum of network availability, security and longest lifetime in harsh environments. The iGigaSwitch 10xx series provides great flexibility in network design - it has 10x Gigabit ports including 2, 4 or 8 SFP ports. The iGigaSwitch is designed for DIN-Rail mounting and comes with redundant input for powering.

I/O interfaces

The integrated I/O interface of the iGigaSwitch 10xx series allow a fast, simple and low-cost integration of non-IP based devices directly e.g. different sensors, controllers, buttons etc. The switches are offering extensive management functionalities with interactions, sending of messages as well as the activation of alarms.

Power over Ethernet (PoE/PoE+/PoE++)

Up to 8x 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 240 watts. The latest generation of the iGigaSwitch 1004 E+ SFP-4VI HW5 provides PoE++ according to IEEE 802.3bt, with 90W per port and a total budget of 540W per switch.

IEC 61850

Aginode iGigaSwitch family complies to IEC 61850 requirements (parts 6, 7-1, 7-2, 7-3, 7-4, 8-1, 9-1 and 9-2 Communication networks and systems for power utility automation). This functionality is critical for Smart grid and allows to use standardized equipment to ensure correct and reliable communication of all networked devices of Smart grid infrastructure (including switches, PLCs, different controllers, sensors etc.) with each other and with central SCADA.

The compliance is tested and confirmed by KEMA/DNV-GL.



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 IEC 61850-6, 7-1, 7-2, 7-3, 7-4, 8-1, 9-1, 9-2 IEC 61850-3



















PoE/PoE+/PoE++

Easy maintenance Redundancy

Security and reliability

High availability







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Hardware Features

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Ordering Information	iGigaSwitch 1002 E+ SFP-2VI HW5	iGigaSwitch 1004 E+ SFP-4VI HW5	iGigaSwitch 1008 E+ SFP-8VI HW5	
Article Number	88306422	88306424	88306428	
LAN Interfaces				
User Port (RJ45)	8x 1000Base-T	6x 1000Base-T	2x1 000Base-T	
Uplink Port (SFP)	2x 100/1000Mbps	4x 100/1000Mbps	8x 100/1000Mbps	
Power over Ethernet (optional)				
Max. Number of PoE+ ports	8	6	2	
Max. PoE power budget	240W	180W	60W	
Max. Number of PoE++ ports	-	6	-	
Max. PoE++ power budget	-	540W	-	
Diagnostic Functions (Interfaces)				
Digital Diagnostics Monitoring Interface		Yes		
Twisted Pair cable diagnostic		Yes		
General				
Dimensions $[W \times H \times D]$	8	3mm x 133mm x 125mr	n	
IP Protection Class		IP30 (EN 60529)		
Mounting	mounting positions of	ng according to EN 607 of DIN-rail clip - vertical a ting. Optional: wall mou		
Material	Anodised/Varnished Aluminium			
Colour		Black		
Ambient Temperature	Operation: -40 85°C, Storage: -40 85°C			
Relative Humidity	20 - 90% (non-condensing)			
Weight	1300g			
MTBF		> 500,000h		
Power Supply				
Input Voltage for Switch		18 60V DC		
Power Fail Hold Up Time	> 1	0ms @ > 36V input volta	age	
Input Voltage for Power over Ethernet	5	2 57V DC (typ. 54V D0	C)	
Power Consumption (without PoE)	13W (standby)	15W (typ.) 22W (fu	Illy connected)	
Heat Output		52 BTU(IT)/h (typ.)		
Connector	5-pin terminal blocks, so	crew-on type (up to 2.5 r	mm²) / (+) (-) (+) (-) (FPE)	
Connector PoE	3-pin terminal blocks	s, screw-on type (up to 2	.5 mm²) / (+) (-) (FPE)	
I/O Interfaces				
I/O Interface Connector	12-pin	terminal block (screw-o	n type)	
Number of Outputs		2		
Output Switching Current/Voltage	2A / 30V DC			
Auxiliary Voltage Source		24V DC max. 42mA		
Number of Inputs		2		
Input Voltage Range		12 60V DC		
Dry Contacts Support		Yes, via aux voltage		



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Software Features

Switching Parameters		
Switching Type	Store-and-Forward, self-learning	
Switching Capacity	50Gbps, non-blocking	
Packet Forwarding Rate	2x 1.488Mpps per port	
Max. Frame Size	9.600Bytes (Support of Jumbo frames)	
Packet Buffer	512 kBytes	
Latency (RFC1242)	100Mbps / 64Byte (FIFO/LIFO) 9µs / 9.3µs 100Mpbs / 1518Byte (FIFO/LIFO) 125µs / 4µs 1000Mbps / 64Byte (FIFO/LIFO) 2.7µs / 2.2µs 1000Mpbs / 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	On-Board High-Performance 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	
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 LANactive Manager	
Authentication via TACACS+	CLI and LANactive Manager	
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	
Memory Card	SD-Card with own MAC-Address (optionally)	



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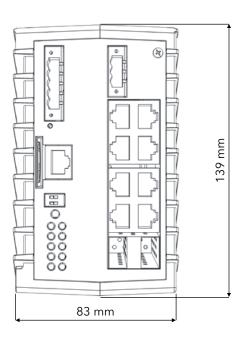
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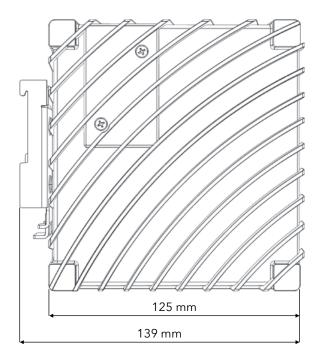
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Standards

CE - Conformity	
Electro Magnetic Capability Directive	2014/30/EU
Low Voltage Directive	-
RoHS 2	2011/65/EU

Dimensions





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