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Connecting. Converting. Leading !

28 Port Modular Rack type Managed Giga Ethernet Switch, IESMGR 3000-4S+ A75R Series



IESMGR 3000-4S+ A75R Series Managed Rack-mount switch will provide you the flexibility for your application needs. You will be able to choose among Giga Copper, Giga SFP & PoE Modules and customize 8 Port combinations your device, in a very simple way. It is available in Redundant AC, DC & mix of AC/DC power input variants.

IESMGR 3000-4S+ A75R Series is designed to withstand the harshest environments. Its fanless design and EMC Level 3 protection guarantee reliable operations within -40 and +75°C. It provides network redundant self-recovery mechanism is less than 20ms on full load that enables the user to build a reliable network through almost any redundant ring topology. With a Multifunctional web dashboard, it offers intelligent features such as Quality of service (QoS), IGMP, Port mirroring and security.

Highlights

- ✓ Up to 24 Ethernet Copper Ports
- ✓ 4 x 1 Gigabit or 4 x 10 Gigabit SFP Uplink slots
- ✓ Up to 24 PoE ports with maximum 720W of PoE power budget, PoE-af/PoE-at
- ✓ Maximum 128Gbps switching capacity, 95.24Mpps throughput
- ✓ Rugged industrial design for -40 to 75°C harsh environment operation
- ✓ Flexible modular configuration, 3 Module-dedicated slots
- ✓ ITU-T G.8032 ERPS Ring, RSTP, or MRP (client) Redundancy

Specifications

Switch Properties	
CPU Memory	512MB DDR3
Flash Memory	32MB NOR Flash
Priority Queues	8
VLAN Table	4096
MAC-Based VLAN	512
VLAN ID Range	VID 1 to 4094
Static IGMP Groups	128
Dynamic IGMP Groups	256
MAC Table Size	16k
Packet Buffer Size	1.5 MB
Jumbo Frame	9216 Byte
Switching Fabric Capacity	56 Gbps (1G uplinks) / 128 Gbps (10G uplinks)
Maximum throughput	41.67 Mpps (1G uplinks) / 95.24 Mpps (10G uplinks)

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Ethernet	
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3ae For 10 Gigabit Ethernet Fiber IEEE 802.3x for Flow Control, Back pressure flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP
Protocols	IPv4, IPv6, IGMPv1/v2/v3, IGMP snooping, GARP, GMRP, GVRP, SNMPv1/v2c/v3, SNMP Inform, ICMP, Telnet, SSH, Client/IP-port-mapping, BootP, TFTP, SMTP, SMTP (Gmail), RMON, HTTP, HTTPS, Syslog, MRP (Client), LLDP, 802.1x,EAP, RADIUS, TACACS+, Mirror port, QoS, ACL, ITU-T G.8032 ERPS Ring, STP, RSTP, MSTP, Compatible Ring/Chain, NTP Server/Client, Serial Console, Modbus/TCP, Support Profinet (including MRP Ring), IEEE 1588 PTP V1/V2, UDLD, Security, Trunk, LACP, MLD, 802.1Q VLAN, Port-Based VLAN, MAC-Based VLAN, IP-Subnet-Based VLAN, Protocol-Based VLAN, QinQ,802.1x, ARP spoof Prevention, DHCP snooping, IP source Guard, BPDU Guard, Dynamic ARP Inspection, DHCP relay Agent
Redundancy	ITU-T G.8032 ERPS Ring, STP, RSTP, MSTP, Compatible Ring/Chain
MIB	MIB II, IF-MIB, SNMPv2 MIB, BRIDGE-MIB, RMON MIB Group 1,2,3,9, RFC RFC 1157, RFC 1213, RFC 1215, RFC 1493, RFC 1643, RFC 1757, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2571, RFC 2742, RFC 2819, RFC 2863, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 2674
Power	
Input Voltage	Switch: AC : Single 110 to 220 VAC DC : 48 to 57 VDC Redundant AC version: 2 * 110 to 220 VAC Redundant DC version : 2 * 48 to 57 VDC Mixed AC/DC version : Redundant: 1x110 to 220VAC & 1 * 48 to 57VDC For PoE Modules only: 2 x 48-57 VDC (each power input max 360W)

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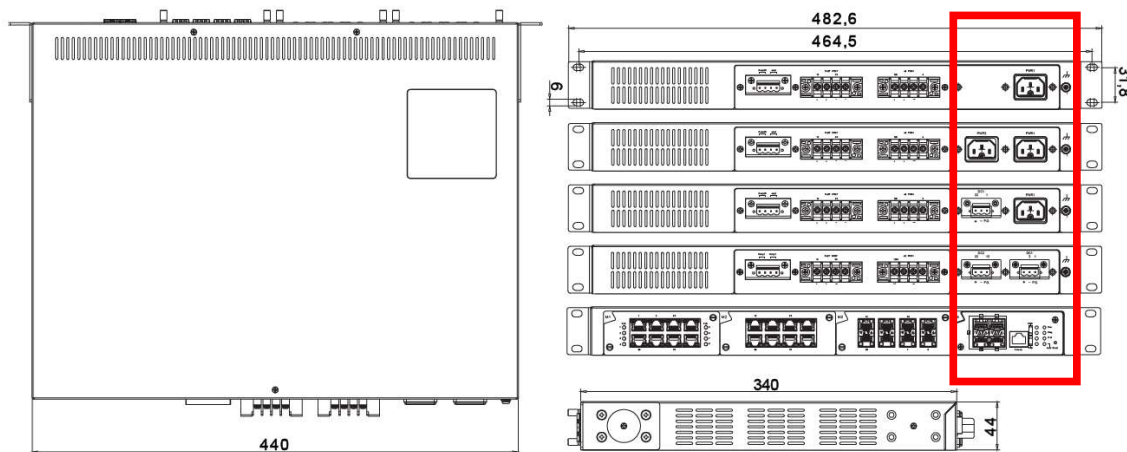
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Consumption	CPU board AC/ Redundant AC: 110-220 VAC, 0.58 A Max, 64W Max CPU board DC / Redundant DC 48-57V DC , 0.68A Max, 32.7W Max PoE 802.3af PoE full loading: 45-57V DC, 8.4A Max, 370W Max 802.3at PoE+ full loading: 51-57V DC, 14.4A Max, 720W Max
Connectors	1 or 2 x AC power inlet 1 or 2 Lockable 3-pin terminal blocks for DC power input PoE 2 x Lockable 3-pin terminal blocks for DC power input. Available for all versions
Reverse Polarity Protection	Yes
Physical Characteristics	
Housing	IP30 SPCC Metal housing
Dimension (W x H x D)	440 x 44 x 340 mm (not including screws and rack-mount kit)
Weight	5Kg (not including module but module cover only)
Installation	1U Rack-mount, Rack-mount kit included
Environmental Limits	Operating Temperature : -40 to 75°C Storage Temperature : -40 to 85°C Ambient Relative Humidity : 95% Non Condensing

Power Input Options



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Technical Specs of the Modules M1 to M5



Description	8-Port RJ45 Module (M1)	8-Port SFP Module (M2)	4-Port RJ45 MACSec Secure module (M3)	4-Port RJ45 Module (M4)	8-Port RJ45 PoE module (M5)
No's of ports	8	8	4. MACSec Secure	4. MACSec Secure	8
Port speed	10/100/1000	100/1000	10/100/1000	10/100/1000	10/100/1000
Interface	Base-T(X) RJ45	Base-F(X) SFP slot	BASE-T(X) RJ45	BASE-T(X) SFP	BASE-T(X) RJ45, 240W

Standards Tested for

IEC 61000-4-2
IEC 61000-4-3
IEC 61000-4-4
IEC 61000-4-5
IEC 61000-4-6
IEC 61000-4-8
IEC 61000-4-11

Product Ordering Code : IESMGR 3000-4S/4S+ A/D A/D A75R

IESMGR 3000 : Base Code for Rack Type Giga Managed Switch with 3 Slots for inserting Communication modules.
4S / 4S+ : Refer Communication Modules Ordering Code below
A/D : 4 * 1G / 10G SFP
A/D : A for AC Input. D for DC Input
A/D : Redundant Input : A for AC Input. D for DC Input
A75R : Fixed

Note : Default Power Supply : 1 * AC Power Input and 2 * DC Power Input only for PoE

Product Ordering Code for Communication Modules in the IESMGR 3000 Rack

S1 : Slot 1 : Choose from modules M1-to M5**
S2 : Slot 2 : Choose from modules M1-to M5**
S3 : Slot 3 : Choose from modules M1-to M5**

** See Technical specifications section above for Module description