

San Telequip (P) Ltd.,
504,505 Deron Heights, Baner Road
Pune 411 045, India



Phone : +91-20-27293455, 9764027070, 8390069393 Connecting. Converting. Leading !
email : info@santelequip.com

24 Port, Industrial Giga Managed Switch, Model IESMG 3012-XXS A Series



IESMG 3012-XXS A Industrial Managed Switch is fully Managed L2 switches, with store-forward architecture, fan-less and energy-saving design, with 12 * 10/100/1000Base-T Copper port and upto 12 * 1.25G/155M SFP fiber port. IESMG 3012-XXS A is designed with protection against Lightning, anti-static and operate in -40°C to 75°C for harsh environments such as Industrial automation, Security, Power system, Intelligent transportation systems (ITS), Mining , Water Management & Oil fields.

Hardware Features

- ✓ Auto MDI/MDI-X
- ✓ ERPS (G.8032)
- ✓ Loop Protection
- ✓ Redundant dual DC input power 12/24/48VDC
- ✓ Provide Reverse Polarity protection, Overload current protect function
- ✓ 2.25KV DC Hi-pot isolation protection for Ethernet ports and power
- ✓ 4KV surge protection for Ethernet and Fiber ports
- ✓ SFP 100/1000Base-X
- ✓ IP40 Aluminum metal case
- ✓ DIN-rail mounting, Wall Mount kits optional
- ✓ Supports EFT protection 6000VDC for Power port
- ✓ Supports 8 / 15KV ESD protection
- ✓ -40°C to 75°C Operating temperature

Hardware Specifications

Standards	IEEE802.3 10BASE-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X IEEE802.3x, IEEE802.1Q VLAN, IEEE802.1w RSTP, IEEE802.1s MSTP, IEEE802.1d STP
Switching Capacity	55Gbps Non-blocking
MAC Address Table	8K
Data Buffer	4M
Maximum Frame Size	9.6K Jumbo Frame
Flash Memory	32M
Copper	12*10/100/1000Base-T, RJ45 ESD and EFT protection
Fiber	4 or 12*100/1000Base-X SFP Slot
Console	RS232 (RJ45)
Reset Switch	Yes
Power	12/24/48V DC. Range 12 to 58V DC 6-PIN Removable Terminal Block Overload Voltage protection Overload Current protection Reverse Polarity protection 6KV Lightning protection 8 / 15KV ESD protection
Power Consumption	IESMG 3012-4S : 12W, IESMG 3012-12S : 22W

San Telequip (P) Ltd.,
504,505 Deron Heights, Baner Road
Pune 411 045, India



Phone : +91-20-27293455, 9764027070, 8390069393
email : info@santelequip.com

Connecting. Converting. Leading !

LED Indicators	PWR, RUN, Link/Act, Speed, Fiber Link
Operating Temperature	-40°C to +75°C
Relative Humidity	5 - 95% (no condensation)
Housing	IP40 Protection, Aluminum Alloy, Fanless
Mounting	DIN Rail. Wall mounting (with optional kit)
Dimensions	169*117*66mm
Weight	1100g
Regulations Tested for	CE/FCC/ROSH

Software Features

L2 Features	
Port Features	IEEE 802.3x Flow control
	Interface counters
	Storm control
	Isolated Port
Link Aggregation	Static aggregation
	Dynamic aggregation, LACP
Mirror	Port-based mirroring
	VLAN based
	Flow based
Spanning Tree	IEEE802.1d STP
	IEEE802.1w RSTP
	IEEE802.1s MSTP
VLAN	Port, Protocol, IP Subnet and MAC-based VLAN
	Access/Trunk/Hybrid-port
	4094 IEEE 802.1Q VLAN VID
	GVRP
Mac-address table	IEEE 802.1q
	MAC Address : 8K
	Support MAC Address automatic Learning
	Static MAC Address
	Dynamic MAC Address
Loop Protection	Supported
	Supported
Loopback Detection	Supported
Private VLAN	Supported
ERPS (G.8032)	Single Ring
	Sub-Ring
	Multi-Ring
	Load balance
	Recovery Time < 50ms
Layer 2 Multicast	IGMP Snooping V1/V2/V3
	MLD Snooping v1/v2
	Source Port Check
	IGMP Fast Leave, Filter, Agent

San Telequip (P) Ltd.,
504,505 Deron Heights, Baner Road
Pune 411 045, India



Phone : +91-20-27293455, 9764027070, 8390069393
email : info@santelequip.com

Connecting. Converting. Leading !

Security	
ACL	ACL (IP Standard ACL), IPV4/IPV6 MAC extend ACL, IP extend ACL Support matching L2, L3, L4 Layer fields Support Log, Redirection, Mirroring, Speed limit
Access Control IEEE802.1x Authentication protocols	(TLS, TTLS, PEAP & MD5) IEEE 802.1x Multi Supplicant authentication MAC-based authentication port Security SSH Remote Login SSLv3 Web-based Authentication RFC 2246 TLS Protocol V1.0 RFC 2865 RADIUS, RFC2866 RADIUS Accounting RFC 3546 Transport Layer Security (TLS) Extensions RFC 3748 PPP Extensible Authentication Protocol (EAP)
QoS	QoS Class, Remarking SP, WRR queue scheduling SP, WRR, SP+WRR Ingress Port based Rate-limit Ingress Priority based Rate-limit Egress Port based Rate limit Egress Queue based Rate limit Policy-based QoS Storm Control Head of Line (HoL) CoS/ToS/DSCP priority queuing Strict Priority, Weighted Round Robin, Priority Mapping, DiffServ Marking IEEE 802.1p 8 active priorities queues for per port
Dot1x	Port Access Control User Access Control MAC Address Access Control RADIUS Server
IP Source Guard	Support Dynamic table entries Support Static table entries
DoS attack prevention	(Denial of Service) Supported
ARP Inspection	Support Dynamic table entries Support Static table entries
Port Security	Supported
Access Management	Supported

Management	
User management	Password protection
SNMP	SNMP V1/v2C/V3
RMON	Statistics Group History Group Alarm Group Events Group
CLI	Support
RADIUS client	Support
Web management	HTTP V1.1, HTTPS

San Telequip (P) Ltd.,
 504,505 Deron Heights, Baner Road
 Pune 411 045, India
 Phone : +91-20-27293455, 9764027070, 8390069393
 email : info@santelequip.com



Connecting. Converting. Leading !

Firmware Upgrade	Revision Upgrade
Telnet, SSL/SSH, LLDP / LLDP-MED,	Supported
TFTP, BootP / DHCP Client	Supported
Syslog / Debug	Support
IPV4 / IPV6	Support
Diagnosis	Ping(IPv4), Ping(IPv6)
	Trace route(IPv4)
	Trace route(IPv6)

Application	
NTP	NTP Client
DHCP	DHCP Client
DHCP Snooping	Trust Port
Telnet	Telnet Server
TFTP	TFTP Client
SSH	SSH Server

Order Information : IESMG 3012-XXS A

IESMG : Industrial Grade, Managed, Giga Switch
 3012 : 12 of 10/100/1000 Copper Port
 XXS : 4 or 12 of 100/1000 SFP Ports
 A : Fixed

Note : SFP to be purchased separately