AVEXTENDERS

1G-SW-24-M-POE

24 port, 1G smart managed ethernet POE switch for AV over IP

front

Features

- 24 Port 1G with layer 3 features: i.e. IGMP Multicasting.
- 24x 1G copper and 2 SFP+ optic ports
- Advanced Network Features: Includes Link Aggregation, Quality of Service (QoS), VLAN, and IGMP support.
- 1U Rackmount Design
- GUI control and status of every port
- Ability to reboot each PoE port independently
- Set IP Watchdog for rebooting PoE
- 30W PoE support for each port
- High Speed Network Capability: 166 Gbps switching capacity

1G-SW-24-M-POE is 1 gigabit switch featuring 24 x 1G ports, 2 x 1G SFP ports, 1 Uplink port, and separate management port. 1G-SW-24-M-POE has a blazing fast 166Gbps switching capacity, providing higher-speed connectivity for AV over IP distribution. Not only does 1G-SW-24-M-POE have switching capacity suited for AV over IP, but it has a simple to use UI with a click of a button it can easily be set up for AV over IP applications. Additionally, it has 24 ports that auto-detect PoE and provides up to 30W of power on each port. The UI also provides the ability to turn PoE on and off PoE for each port independently. 1G-SW-24-M-POE can be configured to scale to larger system by "daisy chaining" multiple switches together in master/slave configuration. The 1G-SW-24-M-POE combined with our HMX-IP-LINK is designed with AV over IP in mind and provides all the performance and features needed to have the simplest set-up and highest quality AV over IP matrix installation.

Data Specifications

Data Compliance	IEEE802.3, 802.3az, 802.3ae, 802.3x, 802.3ad, 802.1x, 802.1Q, 802.1p, 802.1d, 802.1w
Interface	24 x 1G Base-X RJ45 ports 1 x Uplink port 1 x Management port 2 x 1G SFP ports
Switching Capacity	166 Gbps
MAC Address Table	10K
Jumbo Frame	10 KB
Forwarding Delay	< 5us
Packet Forwarding Rate	123.504 MPPS
Network Topology	Ring, Star, Bus, Tree etc.
Memory	1GB
Storage	eMMC 8GB

Mechanical Specifications

Enclosure	1U Rackmount
Dimensions	" x " x "

Power Specifications

Power Supply	110-240VAC
Power Consumption	Up to 400W
PoE+	Up to 30W x 24 ports

Environmental Specifications

Operating Temp	-10 to 70C
Storage Temp	-20 to 75C

Software Specifications	
MAC Address Table	- Dynamic MAC address - Static MAC address - MAC address filtering - Port security MAC address
VLAN	4K VLAN 802.1Q - VLANs based on ports, MACs, voice, surveillance, GVRP and protocols
Spanning Tree	- Function, port, instance, instance port - Message statistics
Port Control	- Bi-directional bandwidth control - Static and LACP dynamic aggregation port aggregation - Multi-port mirroring - Port storm suppression - Port isolation control 10K Jumbo ultra-long frame forwarding

User Security	- Anti-ARP-spoofing spoofing protection - Automatic suppression of Anti-ARP-flooding attacks - IP Source Guard to automatically create IP+MAC+Port+VLAN binding tables - Port Isolation hardware to isolate messages between ports - MAC address binding to ports and port MAC address filtering - IEEE 802.1x and AAA/Radius/TACACS+ for user authentication
Switch Security	- SSHv2 Secure Shell - SNMP v3 encryption management - Security IP's Telnet login and password mechanism
Network Security	- One-click binding based on dynamic ARP tables - Manual binding of IP address, VLAN ID, MAC address and port parameters - L2-L7 ACL flow filtering Supports port broadcast/multicast message suppression and automatic shutdown of dangerous ports - DHCP snooping and IP Source Guard

ACL	- MACACL - MAC ACE - Pv4 ACL - Pv6 ACL - Pv6 ACE - ACL binding
QoS	- COS/DSCP-based traffic classification - Rate limiting of incoming and outgoing messages on ports or custom streams. Message mirroring and message redirection for ports or customized streams - Priority marking of ports or customized streams and provides Remark capability for 802.1P and DSCP priorities

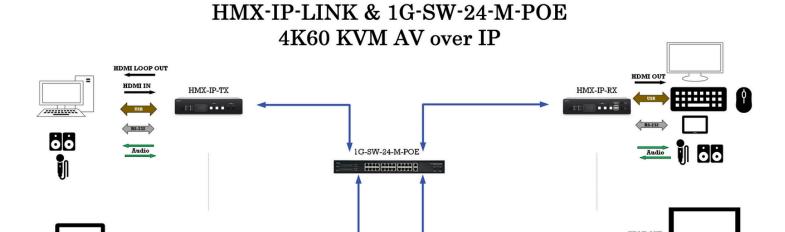|	
Qos cont'd	- Traffic supervision based on VLAN direction (in/out) - Traffic supervision based on aggregated flow direction (inbound/outbound) Queue-based traffic shaping - Port-based traffic shaping SP strict priority scheduling - WRR (weighted round robin) scheduling - SP + WRR hybrid scheduling - IPv4-v6 QoS (qc)
Multicast	- IGMP v1/v2/v3 Snooping - MLD Snooping - MVR
ARP	- ARP table entry aging - ARP Proxy
Routing	IPV4, IPV6 and Static routing

Loop Protection	- Enhanced Ethernet ring protocol - Loopback-detection port loopback detection
Link Protection	- FlexLink link backup - RSTP/MSTP link healing hardware acceleration capability - LACP dynamic link aggregation
Maintenance/ Diagnostics	- Logging - Mirroring - Ping and Traceroute - Electrical port testing - optical module information - UDLD protocols

Remote Management	- Switch configuration - Firmware updating - SNMP - RMON configuration

Models	Description
1G-SW-24-M-POE	24 port POE, 1G smart web managed ethernet switch, POE+ 30 Watts per port, 1U rackmount, 110-240 VAC

HMX-IP-LINK & 1G-SW-24-M-POE
4K60 KVM AV over IP

HDMI LOOP OUT
HDMI IN
USB
RS-232
Audio

HMX-IP-TX

1G-SW-24-M-POE

HMX-IP-RX

HDMI OUT
USB
RS-232
Audio

HDMI LOOP OUT
HDMI IN

HMX-IP-TX

HMX-IP-RX

HDMI OUT