

MANAGED ETHERNET SWITCH

SWG 24 AX



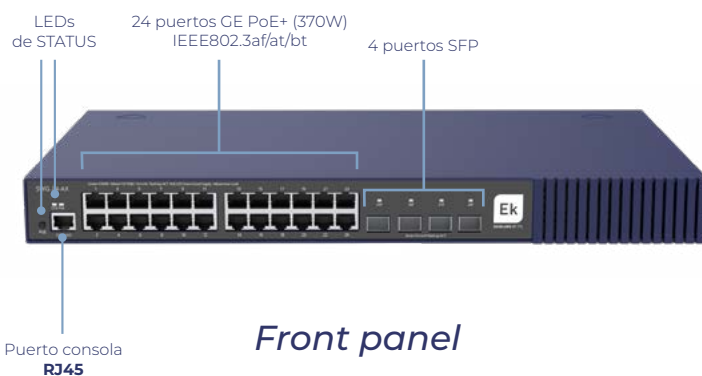
- ✓ 24 ports 1 Gbps with PoE+ output
- ✓ 4 SFP 1 Gbps ports
- ✓ Maximum PoE+ power: 370W
- ✓ 1U of 19" rack
- ✓ Layer 2+ features
- ✓ VLAN management, QinQ, ACL, QoS, mirroring, multicast, ICMP snooping, ...
- ✓ DHCP server
- ✓ Management through web interface, SNMP, CLI, SSH, ...
- ✓ High energy efficiency (IEEE 802.3az)
- ✓ Web management and remote via CloudPRO by EK



EKSELANS BY ITS



SWG 24-AX



Front panel



Rear panel

Port	Input Rate	Output Rate	Status & Speed	IP/Domain/Out/Status	Under/Over-Size	CRC/PCS Error	Collision Count
0001	7.5K	2.2K	Connected 1000M	00000000/0174	00	00	0
0002	17.2K	20.1K	Connected 1000M	41020700/000200	00	00	0
0003	OK	OK	Not Connected	00	00	00	0
0004	OK	OK	Not Connected	00	00	00	0
0005	OK	OK	Not Connected	00	00	00	0
0006	OK	OK	Not Connected	00	00	00	0
0007	OK	1.3K	Connecting 1000M	00000000/0000	00	00	0
0008	OK	OK	Not Connected	00	00	00	0
0009	0.4K	2.3K	Connecting 1000M	20000000/0000	00	00	0
0010	OK	OK	Not Connected	00	00	00	0

SWG 24 AX Interface



TECHNICAL INFORMATION

Hardware

REFERENCE	SWG 24 AX
Code	334201
Ports	
Fixed service port	24 x 10/100/1000M electrical ports supporting auto negotiation + 4 x 1GE SFP ports
System	
Switching capacity	56 Gbps
Packet forwarding rate	42 Mpps
Dimensions and Weight	
Dimensions (W x D x H)	440 mm x 260 mm x 44 mm (17.32 in. x 10.24 in. x 1.73 in.)
Power Supply and Consumption	
Rated input voltage	AC input: rated voltage range 100 Vdc to 240 Vdc, frequency 50/60 Hz
Maximum input voltage	AC input: rated voltage range 90 Vdc to 264 Vdc, frequency 50/60 Hz
Input voltage	High voltage DC (HVDC) input: input voltage range 192 V to 290 V
PoE power supply	24 x electrical ports supporting PoE and PoE+
Maximum output power of a PoE interface	Maximum PoE/PoE+ output power: 370 W
Environment and Reliability	
Fan monitoring	Fan speed adjustment and fault alarms
Operating temperature	0°C to 50°C (32°F to 122°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Operating humidity	10% to 90% RH
Storage humidity	5% to 95% RH
Operating altitude	-500 m to +5000 m (-1640.42 ft to +16404.20 ft)

Software

VLAN	4K VLANs Interface-based VLAN assignment MAC address-based VLAN assignment Protocol-based VLAN assignment Private VLAN Voice VLAN IP subnet-based VLAN CVRP
QinQ	Basic QinQ Selective QinQ
ACL	Standard IP ACL Extended IP ACL Extended MAC ACL (hardware ACL based on the source MAC address, destination MAC address, and optional Ethernet type) Time range-based ACL Expert-level ACL (hardware ACL based on flexible combinations of the VLAN ID, Ethernet type, MAC address, IP address, TCP/UDP port ID, protocol type, and time range) ACL 80 IPv6 ACL Global ACL ACL redirection
QoS	Rate limiting on an interface based on the ingress or egress Flow-based rate limiting on the ingress or egress 802.1p/DSCP/ToS traffic classification Eight priority queues per interface SP, WRR, DRR, SP+WFQ, SP+WRR, SP+DRR, and RED/WRED scheduling
Mirroring	Common service interfaces and aggregate interfaces that can be configured as source and destination interfaces of mirroring 1:1, 1:N, N:1, and flow-based local and remote mirroring RSPAN and ERSPAN Cross-device traffic mirroring
DHCP	DHCP server DHCP client DHCP snooping DHCP relay IPv6 DHCP snooping IPv6 DHCP client IPv6 DHCP relay



TECHNICAL INFORMATION

Layer 2 protocols	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3x, IEEE 802.3ad, IEEE 802.1p, IEEE 802.1x, IEEE 802.3ab, IEEE 802.1Q (CVRP), IEEE 802.1d, IEEE 802.1w, IEEE 802.1s IEEE 802.1s, and IGMP snooping v1/v2
Security	3-tuple binding (IP address, MAC address, and interface) 3-tuple binding (IPv6 address, MAC address, and interface) Invalid MAC address filtering Interface- and MAC address-based 802.1X authentication MAC address bypass authentication (MAB) Portal and Portal 2.0 authentication ARP check DAI Trusted ARP ARP spoofing prevention Broadcast or multicast storm suppression Unknown multicast suppression and multicast bandwidth suppression Hierarchical management and password protection RADIUS and TACAS+ AAA (IPv4/IPv6) for device login management SSH and SSHv2.0 BPDU guard IP source guard CPP and NFPP Port protection
Cable diagnostics	Cable detection
Energy Efficient Ethernet (EEE)	IEEE 802.3az-compliant EEE: When EEE is enabled, power consumption of interfaces is significantly reduced.
Port sleeping	Port sleeping
PoE	IEEE 802.3af, IEEE 802.3at, and IEEE 802.3bt Automatic and energy-efficient power supply management modes Warm start to implement uninterrupted power supply Interface priority Compatibility with non-standard PDs Scheduled power-on/off of PoE interfaces
IP routing	IPv4/ IPv6 static route RIP, RIPng, OSPFv2, and OSPFv3 Routing policy
IPv6 Basic protocols	IPv6 addressing, Neighbor Discovery (ND), IPv6 ACL, ICMPv6, IPv6 ping, and IPv6 tracer
VSU features	VSU Local and remote stacking Cross-chassis link bundling within the stack
Zero Touch Provisioning (ZTP)	CWMP (TR-069) standard protocol
Management features	SNMP, CLI (Telnet/console), RMON, SSH, Syslog/debugging, NTP/SNTP, FTP, TFTP, web, sFlow and CloudPRO by EK