ADVANCED L3
48 PORT MANAGED
POE SWITCH

GSD GROUP

24GE+4SFP(10G) L3 Managed Switch
P1-P24 10/100/1000 Mbps
P25-P28 10G SFP
Console
PWR SYS
RST

SWC54POE-PRO

The SWC54POE-PRO is a high-performance 48-port Managed PoE switch which provides both power and data over a single Cat5 cable. With Power over Ethernet (PoE) capabilities, it supports 10/100/1000Mbps links and includes gigabit uplink ports. The switch is compatible with the IEEE 802.3af/at standards, delivering efficient power to end devices using an advanced auto-sensing algorithm. Additionally, the gigabit SFP uplink offers an economical solution for long-distance data transmission. The PoE switch automatically detects PoE requirements, speed, and duplex settings for easy operation and reliable performance.

POWER OVER ETHERNET (POE)

LAYER 2 AND LAYER 3 MANAGEMENT

GIGABIT UPLINK & SFP SUPPORT

DEVICE MONITORING

WEB SMART MANAGEMENT

AUTO-SENSING ALGORITHM

SUPPORTS IEEE 802.3AF/AT STANDARDS

REAL TIME NOTIFICATIONS

HARDWARE SPECIFICATIONS

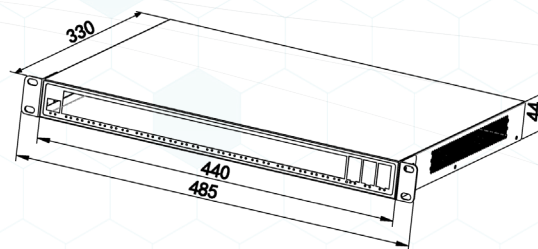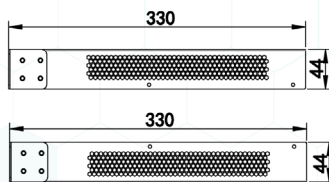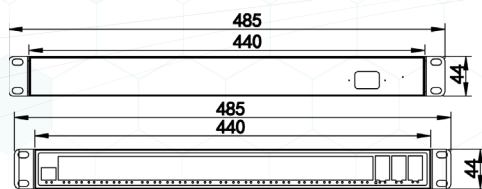|	
CONNECTOR	48 10/100/1000Base-T RJ45, 4 1000 Base-X SFP, x RS232-to-RJ45 serial port
POE PORT	48 10/100/1000Mbps PSE port
LED INDICATORS	Power Indicator: PWR(green).Network Indicator: Link(green) PoE Working Indicator: PoE(green).SFP Indicator: Link(green)
SWITCH ARCHITECTURE	Store and Forward
BACKPLANE BANDWIDTH	256Gbps
PACKET FORWARDING RATE	96.31Mpps
MAC ADDRESS	16k
POWER REQUIREMENT	AC100-240V 50/60Hz
ESD PROTECTION	6KV ESD
DIMENSION (W×D×H)	440mm x 290mm x 44.5mm
WEIGHT	5.2Kg/6.5Kg

POWER OVER ETHERNET (POE) SPECIFICATIONS

NETWORK STANDARD	IEEE802.3i 10 BASE-T ; IEEE802.3u 100 BASE-TX, IEEE802.3ab/z 1000 BASE-TX ; IEEE802.3x Flow Control
POE STANDARD	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
POE SUPPLY TYPE	1/2(+), 3/6(-) End-span
POE POWER OUTPUT	Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)
POE POWER BUDGET	600W/800W

ENVIRONMENT

ENVIRONMENT SPECIFICATION	Operating temperature: -20°C~55°C, Operating humidity: 5% ~95% Storage temperature: -40°C~75°C, Storge humidity:5%~95%
SAFETY	FCC Part15 Class A, CE.RoHs

DIMENSIONS

L2 SWITCHING

PORT CONFIGURATION

POE MANAGEMENT	Support Port-base PoE status view and control
PORT AUTO-NEGOTIATION	Support
PORT FLOW CONTROL	Support full duplex IEEE802.3x flow control Support Half-duplex back pressure flow control
BROADCAST STORM CONTROL	Support broadcast, multicast, DLF packet rate limit
PORT MIRRORING	Support
PORT ISOLATION	Support
PORT SELF-LOOP DETECTION	Support
LINK AGGREGATION	IEEE802.3add LACP and static trunk. Supports up to 128 aggregation groups, each group supports up to 8 ports
JUMBO FRAME	Jumbo packets up to 12K bytes
REDUNDANT PORT	Support

MAC CONFIGURATION

MAC ADDRESS TABLE MANAGEMENT	Support
STATIC MAC ADDRESS	Support
MAC ADDRESS BINDING	Support
MAC ADDRESS FILTERING	Support
MAC ADDRESS LEARNING CONTROL	Control number of port-based MAC address learning

VLAN CONFIGURATION

PORT-BASED VLAN	Support
802.1Q VLANS	Support
MAC-BASED VLAN	Support
IP-BASED VLAN	Support
PROTOCOL-BASED VLAN	Support
VOICE VLAN	Support
VLAN MAPPING	Support
QINQ	Support

RELIABILITY PROTOCOL

SPANNING TREE PROTOCOL	Support STP/RSTP/MSTP
ERPS PROTOCOL	Support G.8032/Y.1344
LLDP	Support LLDP&LLDP-MED
UDLP PROTOCOL	Fully compatible with CISCO's UDLD protocol

ROUTING

ARP	Support static and dynamic ARP
STATIC ROUTING	Support

L3 SWITCHING

L3 ROUTING PROTOCOL

RIP	Support RIP v1/v2
OSPF	Support OSPF v2
POLICY ROUTING	Support
VRRP	Support

MULTICAST FUNCTIONS AND PROTOCOLS

STATIC MULTICAST MAC ADDRESS	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3
MVR	Support
GMRP	Support

ACL ACCESS CONTROL LIST

ACL BASED ON STANDARD IP	Support
ACL BASED ON EXTENDED IP	Support
ACL BASED ON MAC IP	Support
ACL BASED ON MAC ARP	Support
ACL PORT FILTERING	Support
ACL BASED ON TIME	Support

QOS

QUEUE SCHEDULING ALGORITHMS	Support WRR
CLASSIFICATION BASED ON PORT	Support
CLASSIFICATION BASED ON 802.1P	Support
CLASSIFICATION BASED ON DSCP	Support
CLASSIFICATION BASED ON ACL	Support
QOS POLICY	Supports mapping of different data streams to different queues. Support data stream to modify COS or DSCP value. Support the speed limit of data stream. Support data stream statistics. Support data stream mirroring

DHCP

DHCP CLIENT	Support
DHCP SNOOPING	Support
DHCP RELAY	Support
DHCP SERVER	Support
DHCP OPTION 82	Support

SECURITY

ACL	Support Standard IP / Extend IP / MAC IP / ARP

G.S.D GROUP
The alternative solution

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alexa

NDAA Compliant