Vikings Technology

SMX1648C series

Managed L2+ Switch

KEY FEATURES

- 16*10/100/1000Base-TX RJ45 and 4*1/2.5/10GBase-X SFP+ and 8*1G Combo ports
- Extended PoE and Ethernet transmission up to 250 meters
- 12M Packet buffer for smooth transfer of highest definition videos
- 128Gbps Switching Bandwidth
- IPv4/IPv6 static routing support
- 370W PoE Power budget (PoE version)
- ERPS support with recovery time <50ms
- Metal case
- 19" Rack mountable, 1U height
- 3 years warranty

INTRODUCTION

The SMX1648C series Layer 2+ Managed Ethernet Switch comes with 16*10/100/1000Mbps RJ45 and 4*1/2.5/10GBase-X SFP+ and 8*1G Combo ports. The PoE version provides PoE as Power Sourcing Equipment (PSE) up to 30W per port with total up to 370W PoE budget. With in-built Ethernet extender function, signals on copper ports can be transmitted & received up to 250meters from remote devices, at the same time supplying PoE power. Ethernet Ring Protection Switching (ERPS) grants ultra fast recovery time of less than 50ms. Powerful Layer 2+ management and security functions with 10G SFP ports ensures suitability for medium to large scale network projects.

SPECIFICATIONS

Model	SMX1648C-1U	SMX1648CP-1U
Ports		
RJ45 ports and speed	16 * 10/100/1000Base-TX	
Fiber ports and speed	4 * 1/2.5/10GBase-X SFP+	
Combo ports and speed	8 * 10/100/1000Base-TX or 1000Base-X SFP	
Management ports	1 * RJ45 Console	

Model	SMX1648C-1U	SMX1648CP-1U
Ethernet		
Switching Bandwidth	128Gbps	
Packet Forwarding	190Mpps	
Max Packet Length	10KB	
Packet Buffer	12Mb	
MAC Address Table	16K	
PoE	n/a	Ports 1-16: IEEE 802.3af/at, max output 30W per port (370W Total)
Supported Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z IEEE802.3x, IEEE 802.1D, IEEE 802.1w, IEEE802.1Q IEEE802.1X, IEEE 802.1ab, IEEE 802.3ad, ITU-T G.8032, IEEE802.3ae	
L2 Management		
Port Features	Static & Dynamic aggregation, 1/2.5/10G aggregation IEEE802.3x flow control, Traffic statistics Port isolation, Network storm suppression based on port bandwidth Many to one port mirroring	
VLAN	Supports Access, Trunk and Hybrid modes	
VLAN Classification	Mac Based, IP Based, Protocol Based	
QinQ	Port-based, VLAN-based, Flow-based	
DHCP	Support DHCP client & DHCP snooping	
ACL	IP Standard, MAC extend, IP extend	
Redundancy protocols	STP, RSTP, ITU-T G.8032 ERPS, MSTP	
Multicast	IGMP snooping V1/V2/V3	
QoS	Supports QoS Class, Remarking, SP WRR queue scheduling Policy-based QoS Ingress/Egress port based rate limit	
Security	Supports 802.1x, Port authentication MAC authentication, RADIUS service Supports Port-security, IP Source Guard IP/Port/MAC binding ARP-check and ARP packet filtering for illegal users	
Management & Maintenance	Web based management SNMP V1/V2C/V3, Telnet/SSH server LLDP, RMON alarm, NTP, Ping Tracert, TFTP client, IPv6, PoE Management	
L3 Management		
ARP	ARP table aging	
IPv4/IPv6	Static routing	
DHCP	DHCP server	

Model	SMX1648C-1U	SMX1648CP-1U
Environmental		
Operating Temperature	0°C ~ +50°C	
Storage Temperature	-10°C ~ +70°C	
Relative Humidity	5 ~ 90% non-condensing	
MTBF	470.000h	
Electrical and Physical		
Power Input	100~240VAC	
Max Power consumption	40W	440W
Input polarity protection	n/a	
Case	Metal case	
Cooling	Support fan speed control	
Dimensions (H * D * W)	44 * 245 * 440mm	
Weight	~4kg	
Mounting	19" Rack mountable, 1U height	
Certifications		
Standards	CE 2014/30/EU EMC, EN 55032:2015/A11:2020, EN 55035:2017/A11:2020 EN 61000-3-2:2019/A2:2024, EN 61000-3-3:2013/A2:2021/AC:2022-01 EN 61000-4-2:2009, EN 61000-4-3:2020, EN 61000-4-4:2012 EN 61000-4-5:2014/A1:2017, EN 61000-4-6:2023 CE 2014/35/EU LVD, EN IEC 62368-1:2024 FCC Part 15, Subpart B:2016, ANSI C63.4:2014 RoHS 2011/65/EU, (EU) 2015/863, (EU) 2017/2102	

ORDERING INFORMATION

Model name	Description
SMX1648C-1U	Managed L2+ Switch 16*10/100/1000Base-TX RJ45 and 4*1/2.5/10GBase-X SFP+ and 8*1G Combo ports, 100~240VAC input, Rack mount
SMX1648CP-1U	Managed L2+ Switch 16*10/100/1000Base-TX RJ45 PoE and 4*1/2.5/10GBase-X SFP+ and 8*1G Combo ports, 100~240VAC input, Rack mount

OTHER

SFP modules are not included and to be purchased separately