

S6780 Layer 3 Managed Switches

PRODUCT OVERVIEW

S6780 Series is a next-generation aggregation 10GE switch introduced by Scodeno. It is targeted at the IP MAN (metropolitan area network), government and enterprise networks, Internet café and diskless working environment. It is developed on the basis of high-performance hardware and SCODENOROS software platform with SCODENO own independent intellectual property rights. It supports functions such as powerful ACL, flexible QinQ, 1:1 or N:1 VLAN switching, Ethernet OAM, carrier-level QoS and industry-level 10GE Ether-ring, ensuring this switch series meets application requirements in all kinds of complicated sites. It also supports layer-3 routing protocol.

Scodeno S6780 Series has 5 models: S6780-4XG24GT, S6780-4XG16GX8GC, S6780-4XG48GT, S6780-6XG48GT and S6780-6XG48GX.

PRODUCT APPEARANCE

Scodeno S6780 Series configurations listed as below:



S6780-4XG24GT

- 4-Port 10GE/GE SFP+
- 24-Port Gigabit RJ45



S6780-4XG16GX8GC

- 4-Port 10GE/GE SFP+
- 16-Port Gigabit SFP
- 8-Port Gigabit Combo



S6780-4XG48GT

- 4-Port 10GE/GE SFP+
- 48-Port Gigabit RJ45



S6780-6XG48GT

- 6-Port 10GE/GE SFP+
- 48-Port Gigabit RJ45



S6780-6XG48GX

- 6-Port 10GE/GE SFP+
- 48-Port Gigabit SFP

PRODUCT FEATURES & BENEFITS

■ VLAN

- 4K Active VLAN, QinQ & Selective QinQ, GVRP, Private VLAN, Voice VLAN

■ Spanning Tree

- 802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP)
- BPDU guard, root guard and loopback guard

■ Multicast

- IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter.

■ IP

- Static route,
- IPv4/v6 dual stack

■ IPv6

- ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet
- IPv6 neighbor discovery Path MTU discovery
- MLD V1 MLD snooping IPv6 Static Routing, RIPng, OSPFv3
- Manual tunnel, ISATAP tunnel, 6-to-4 tunnel

■ QoS

- CAR, HQoS, MAC/IP/TCP/UDP/VLAN/COS/DSCP/TOS based QoS, 802.1P/DSCP priority relabeling, SP, WRR, and "SP+WRR", Tail-Drop, WRED, flow monitoring and traffic shaping

■ Security

- Port isolation, Port security, and "IP+MAC+port" binding, MAC sticky
- DHCP Snooping and option 82, DAI & IP source guard, PPPoE+ IEEE 802.1x, Radius and BDTacacs+
- L2/L3/L4 ACL flow identification and filtration Anti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc. Broadcast/multicast/unknown unicast storm-control
- MD5, SHA-256, RSA-1024, AES256, etc.

■ Reliability

- Static/LACP link aggregation, Interface backup
- EAPS and ERPS
- ISSU uninterrupted system upgrade
- BVSS, up to 16-units per stack
- VRRP
- UDLD

■ Management

- Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP
- NTP
- ZTP
- SPAN, RSPAN
- Dying gasp*

■ Environment

- Operating temperature/humidity: 0°C -50°C ,10%-90% non-condensing
- Storage temperature/humidity: -20°C -70°C , 5%-95% non-condensing

PRODUCT SPECIFICATIONS

Item		S6780-4XG24GT	S6780-4XG16GX8GC	S6780-4XG48GT	S6780-6XG48GT	S6780-6XG48GX
Gigabit Interface	RJ45	24	8 (combo)	48	48	/
	SFP	/	24	/	/	48
10 GE/GE Interface		4	4	4	6	6
Console (RJ45)		1	1	1	1	1
Backplane (Gbps)		128 Gbps	128 Gbps	216 Gbps	216 Gbps	216 Gbps
Forwarding rate		90 Mpps	96 Mpps	132 Mpps	162 Mpps	162 Mpps
Physical Specifications						
Chassis	Dimensions (WxDxH)(mm)	440 x 280 x 44	440 x 280 x 44	440 x 280 x 44	440 x 280 x 44	440 x 280 x 44
	Package Dimensions (WxDxH)(mm)	500 x 320 x 80	576 x 448 x 94	576 x 448 x 94	576 x 448 x 94	576 x 448 x 94
	Weight (kg)	3.9	5.2	5.5	5.5	5.5
Power						
Power supply	AC: 100V-240V	45W	45W	50W	50W	150W
	DC: 36~72V					
Power consumption	no-load	<22W	<18W	<25W	<25W	<40W
	full-load	35W	38W	48W	48W	85W
Total output BTU (1000BTU/H=293W)		153.58	153.58	163.82	163.82	511.49
Fan Number		/	2	2	2	2
Noise@25°C (dBA)		0	45	45	45	45
MTBF(H)		>200,000	>200,000	>200,000	>200,000	>200,000
Forwarding mode		Store-forward	Store-forward	Store-forward	Store-forward	Store-forward
Flash (MB)		16	16	16	161	16
DRAM (MB)		256	256	512	512	512
MAC		16K	16K	32K	32K	32K
Buffer size (MB)		1.5	1.5	1.5	1.5	1.5
Jumbo frame (K)		9	9	9	9	9
Interface VLAN		64	64	64	64	64
Routing Table		512	512	512	512	512

Copyright © Shenzhen Scodeno Technology Co., LTD.2023. All Rights Reserved.

This document is SCODENO Public Information. SCODENO reserves the right to alter, update and otherwise change the information contained in the document from time to time.