

10G UPLINK LAYER 3 MANAGED POE SWITCHES

S5700-24GP-4TFR

10G Uplink 24-Port Gigabit Layer 3 Managed PoE Switch

Layer 3 Routing

300 W PoE Budget

4 × 10G SFP+

6 kV Surge Protection



Front panel — 24 gigabit PoE ports, 4 SFP+ uplinks, console port and status LEDs

The S5700-24GP-4TFR is a Layer 3 managed PoE switch for surveillance transport and Wi-Fi coverage. Twenty-four gigabit PoE ports feed the devices while four 10 Gigabit SFP+ uplinks carry the aggregate — a 128 Gbps fabric at 95.2 Mpps, with IPv4 and IPv6 routing, a 300 W PoE budget and a console port, in a single rack unit.

24

Gigabit PoE ports

4 × 10G

SFP+ uplinks

300 W

PoE power budget

128 Gbps

Switching capacity

95.2 Mpps

Forwarding rate

Layer 3

OSPF · RIP · IPv4/IPv6

Key Capabilities

Ten Gigabit Uplinks off 24 Access Ports

Four SFP+ slots at 10 Gbps each carry the aggregated load of twenty-four gigabit access ports without a bottleneck, backed by a 128 Gbps fabric and a 95.2 Mpps forwarding rate — headroom for a floor of 4 MP cameras recording continuously.

300 W PoE Budget

Up to 30 W per port with power limiting, per-port priority, scheduled supply windows and live chip-status readout — so an overloaded rack sheds the least important camera first rather than dropping the whole switch.

Managed, With a Console Port

Web over HTTP, HTTPS and SSL v3; CLI over Telnet, SSH or the local console port; SNMP v1/v2/v3, RMON, LLDP and NTP, plus the Foredge Apollo cloud platform.

True Layer 3 Routing

IPv4 static routes, RIP v1/v2 and OSPFv2, plus IPv6 static routes, RIPng and OSPFv3, with ARP and ND configuration and a DHCP server. Routes between subnets without adding a separate router.

Enterprise Security

IEEE 802.1X with Radius and Tacacs+, HTTPS, SSL v3, TLS v1 and SSH v1/v2, IP-MAC-Port binding, ARP and IP source protection, DoS defence, DHCP snooping, port isolation and L2–L4 ACLs.

6 kV Surge Protection on Every Port

All ports carry 6 kV lightning protection, with PSE short-circuit and PoE overload protection and over-temperature, over-voltage and surge-current protection on the internal supply.

Typical Applications

CCTV & surveillance

Hotels & serviced apartments

Factory dormitories

Campuses & student housing

Wi-Fi AP and IP-phone feeds

Protection Built Into Every Port

Hardware protection layers that keep a fully loaded PoE aggregation switch running in real installations.

6 kV Surge

Every port carries 6 kV lightning protection — the ports most exposed on outdoor camera runs.

PoE Protection

PSE short-circuit protection and PoE overload protection on each powered port.

Thermal & Voltage

Over-temperature, over-voltage and surge-current protection on the internal power supply.

Link Resilience

Loop, root-bridge, TC and BPDU protection, with 50 ms switchover on the fibre ports.

Technical Specifications — Hardware

Product model	S5700-24GP-4TFR
Network interface	24 × 10/100/1000 Mbps RJ45 ports (PoE) · 4 × 10 Gigabit SFP+ fibre ports · 1 × Console port
Standards	IEEE 802.3, 802.3i, 802.3u, 802.3ab, 802.3z, 802.3ad, 802.3x, 802.1p, 802.1q, 802.1d, 802.1s, 802.1w, 802.3af, 802.3at
Switching capacity	128 Gbps
Packet forwarding rate	95.2 Mpps
MAC address table	16 K
Packet buffer	12 Mb
Forwarding mode	Store and forward
PoE standards	IEEE 802.3af / IEEE 802.3at
PoE power	300 W total system budget · 30 W maximum per port
PoE pinout	1/2 (+), 3/6 (–)
Protection	6 kV surge on all ports · PSE short-circuit · PoE overload · over-temperature, over-voltage and surge-current protection
LED indicators	28 × Link/Act · 24 × PoE · 1 × Power · 1 × SYS
Input power	AC 100–240 V, 50/60 Hz
Dimensions (L×W×H)	440 × 320 × 44 mm — 1U rack mount
Operating temperature	0 °C to 40 °C
Storage temperature	–40 °C to 70 °C
Operating humidity	10 % – 90 % RH, non-condensing
Storage humidity	5 % – 90 % RH, non-condensing
Certification	CE · RoHS · FCC

Technical Specifications — Software

Layer 3 interface	Layer 3 interfaces · IPv4 and IPv6 address configuration · ARP configuration · ND configuration
IPv4 routing	Static routing · RIP v1/v2 · OSPFv2
IPv6 routing	Static routing · RIPng · OSPFv3
VLAN	4 K VLANs · 802.1Q VLAN · MAC VLAN · IP VLAN · Voice VLAN
DHCP	DHCP server · DHCP relay · DHCP snooping
MAC address table	IEEE 802.1d compliant · automatic learning and ageing · static, dynamic and filtering entries
Security	Password protection · access restriction by port, IP and MAC address · HTTPS, SSL v3, TLS v1, SSH v1/v2 · IP-MAC-Port binding · ARP protection, IP source protection, DoS protection · DHCP snooping and attack defence · 802.1X and AAA · port security and port isolation · CPU protection
PoE management	PoE total power limit · PoE chip status check · port priority · scheduled power-supply windows
ACL	L2 to L4 packet filtering · port mirroring · port redirection · flow rate limiting · QoS remarking
QoS	8 queues per port · port, 802.1p and DSCP priority · SP, WRR, SP+WRR and WFQ scheduling
Spanning tree	STP (802.1d), RSTP (802.1w) and MSTP (802.1s) · loop protection, root-bridge protection, TC protection, BPDU protection and BPDU filtering
Multicast	IGMP v1/v2/v3 snooping · MLD v1/v2 snooping · fast-leave and querier for Layer 2 multicast · Layer 2 IPv4 and IPv6 static multicast
Storm suppression	Broadcast, multicast and unknown-unicast suppression
Link aggregation	Static and dynamic aggregation · IP, MAC and mixed load-balancing modes · up to 32 aggregation groups
IPv6	IPv6 Ping · IPv6 Tracert · IPv6 Telnet · IPv6 SSH · IPv6 SSL
Management & maintenance	Web (HTTP, HTTPS, SSL v3) · CLI (Telnet, SSH v1/v2, local console port) · SNMP v1/v2/v3 · LLDP and RMON · CPU and memory monitoring · system log with graded warnings · Ping, Tracert and cable diagnostics · Foredge Apollo cloud platform

Ordering Information

MODEL	DESCRIPTION
S5700-24GP-4TFR	24 × 10/100/1000 Mbps PoE RJ45 + 4 × 10 Gigabit SFP+ + console · Layer 3 managed · 300 W PoE budget · 1U rack mount

Warranty & Support

Warranty	Two years from date of purchase
Stock & replacement	Held in Riyadh · replacement within 48 hours
Technical support	Pre-sales design, configuration assistance and firmware from the distributor
Country of manufacture	China — Shenzhen Fengrunda Technology Co., Ltd.



Front panel — 24 gigabit PoE ports, 4 SFP+ uplinks, console port and status LEDs

Panel Reference

Ports 1 – 24	10/100/1000 Mbps RJ45 with PoE output
SFP+ 1 – 4	10 Gigabit fibre uplink
Console	RJ45 console port for local command-line access
Indicators	Power and SYS, plus Link/Act and PoE per port
Management	Web, Telnet, SSH, SNMP and Apollo cloud
Power	Internal supply, AC 100–240 V

Recommended Optical Modules

MODEL	TYPE	REACH
SF410M-LC-300M	10 Gigabit SFP+ · multimode · 850 nm · LC · DDM	up to 300 m
SF412A-LC-10KM	10 Gigabit SFP+ · single-mode · 1310 nm · LC · DDM	up to 10 km

The uplink slots are 10 Gigabit SFP+. Gigabit SFP modules (SF310M-LC-500M, SF312A-LC-10KM) are intended for the 1G SFP switches in the range.

Related Foredge Layer 3 Switches

MODEL	ACCESS PORTS	UPLINK	POE BUDGET	MANAGEMENT
S5700-48GP-4TFR-700W	48 × GE PoE	4 × 10G SFP+	700 W	Managed L3
S5700-24GP-4TFR	24 × GE PoE	4 × 10G SFP+	300 W	Managed L3
S5700-24F-8G-4TF	24 × GE SFP + 8 × GE combo	4 × 10G SFP+	—	Managed L3
PS3024GS-250W / -400W	24 × GE PoE	2 × GE SFP	250 W / 400 W	Managed L2

Also held in Riyadh stock. Ask us for the matching datasheet.

Notes

- The 300 W budget covers twenty-four ports at roughly 12 W each. Where several ports need the full 30 W, size the load before ordering.
- Specifications are taken from the manufacturer's published data and are subject to change without notice.
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