

10G UPLINK LAYER 3 MANAGED POE SWITCHES

S5700-48GP-4TFR

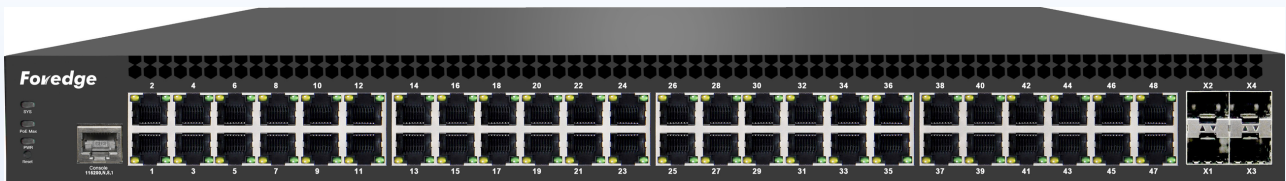
10G Uplink 48-Port Gigabit Layer 3 Managed PoE Switch

Layer 3 Routing

700 W PoE Budget

4 × 10G SFP+

6 kV Surge Protection



The S5700-48GP-4TFR is a managed Layer 3 PoE switch built for surveillance transport and Wi-Fi coverage. Forty-eight gigabit PoE ports and four 10 Gigabit SFP+ uplinks fit into a single rack unit, driven by a Realtek 800 MHz MIPS-34Kc processor and a 176 Gbps switching fabric — enough capacity to serve as access, aggregation or core in campus, hotel and enterprise-park networks.

48

Gigabit PoE ports

4 × 10G

SFP+ uplinks

700 W

PoE power budget

176 Gbps

Switching capacity

130.9 Mpps

Forwarding rate

Layer 3

OSPF · RIP · IPv4/IPv6

Key Capabilities

48 Gigabit PoE Ports in 1U

Forty-eight 10/100/1000 Mbps RJ45 ports, every one IEEE 802.3af/at compliant, alongside four 10 Gigabit SFP+ uplinks in a single 19-inch rack unit — the port density to consolidate a whole floor or building onto one switch.

700 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 device first rather than dropping the whole switch.

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 and attack defence, port isolation and L2-L4 ACLs.

10 Gigabit Uplinks

Four SFP+ slots at 10 Gbps each carry the aggregated load of 48 access ports without a bottleneck, backed by a 176 Gbps switching fabric and a 130.9 Mpps forwarding rate.

True Layer 3 Routing

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

Complete Management Stack

Web GUI over HTTP, HTTPS and SSL v3; CLI over Telnet, SSH or local serial; SNMP v1/v2/v3 and RMON v1/v2; LLDP, NTP, DNS, CPU and memory monitoring, graded syslog — plus the Foredge Apollo cloud platform.

Typical Applications

CCTV & surveillance transport

Hotels & resorts

Campuses & university buildings

Enterprise-park aggregation

Wi-Fi AP and IP-phone backbone

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.

PSE Protection

Short-circuit protection on the PSE 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 fiber ports.

Technical Specifications — Hardware

Network interface	48 × 10/100/1000 Mbps RJ45 ports (PoE) · 4 × 10 Gigabit SFP+ fiber 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
Processor	Realtek 800 MHz MIPS-34Kc
Switching capacity	176 Gbps
Packet forwarding rate	130.9 Mpps
Forwarding mode	Store and forward
MAC address table	16 K
Packet buffer	12 Mb
PoE standards	IEEE 802.3af / IEEE 802.3at
PoE power	700 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 · surge current
LED indicators	52 × Link/Act · 48 × PoE · 1 × PWR · 1 × SYS
Input power	AC 100–240 V, 50/60 Hz — built-in power supply, IEC C14 inlet
Dimensions (W×D×H)	440 × 360 × 44 mm — 1U, 19-inch 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

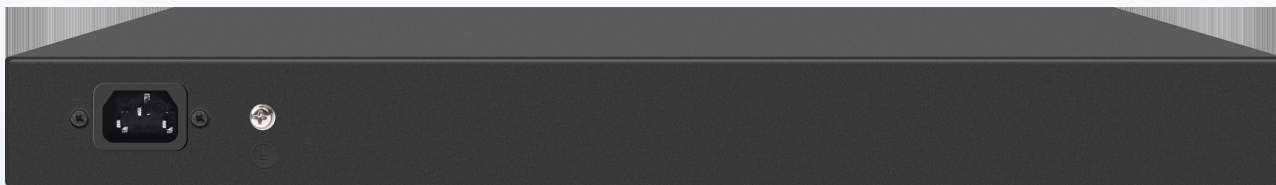
Layer 3 interface	Layer 3 interfaces · IPv4 and IPv6 address configuration · ARP configuration · ND configuration
IPv4 routing	Static routing · RIP v1/v2 · OSPFv2
IPv6 routing	Static routing · RIPng · OSPFv3
IPv6 tools	IPv6 Ping · IPv6 Tracert · IPv6 Telnet · IPv6 SSH · IPv6 SSL
VLAN	4 K VLANs · 802.1Q 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
Spanning tree	STP (802.1d), RSTP (802.1w) and MSTP (802.1s) · loop protection, root-bridge protection, TC protection, BPDU protection and BPDU filtering · 50 ms fiber-port switchover
Link aggregation	Static and dynamic aggregation · IP, MAC and mixed load-balancing modes · up to 32 aggregation groups
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 · IGMP v1/v2/v3 Layer 3 multicast
Storm suppression	Broadcast, multicast and unknown-unicast suppression
QoS	8 queues per port · port, 802.1p and DSCP priority · SP, WRR, SP+WRR and WFQ scheduling algorithms
ACL	L2 to L4 packet filtering · port mirroring · flow rate limiting · QoS remarking
Authentication	IEEE 802.1X · AAA · Radius · Tacacs+
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 DHCP attack defence · port security and port isolation · CPU protection
PoE management	PoE power limiting · PoE chip status check · port priority · scheduled power-supply windows · intelligent power supply
Management & maintenance	Web (HTTP, HTTPS, SSL v3) · CLI (Telnet, SSH v1/v2, local serial) · SNMP v1/v2/v3 · RMON v1/v2 · LLDP · NTP · DNS client · CPU and memory monitoring · system log with graded warnings · Ping, Tracert and cable diagnostics · Foredge Apollo cloud platform

Ordering Information

MODEL	DESCRIPTION
S5700-48GP-4TFR	48 × 10/100/1000 Mbps PoE RJ45 + 4 × 10 Gigabit SFP+ · Layer 3 managed · 700 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.



Rear panel — IEC C14 AC inlet and chassis earth screw

Panel Reference

Ports 1 – 48	10/100/1000 Mbps RJ45, PoE output on every port
X1 – X4	10 Gigabit SFP+ slots for fiber uplink
Console	RJ45 console port — 115200, N, 8, 1
Reset	Reset button
Indicators	Link/Act and PoE per port, plus SYS, PoE Max and PWR system LEDs
Rear panel	IEC C14 AC inlet and chassis earth screw — no external power adapter

Recommended Optical Modules

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

The four 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, not for these slots.

Related Foredge Switches

MODEL	ACCESS PORTS	UPLINK	POE BUDGET	LAYER
S5700-24GP-4TFR	24 × GE PoE	4 × 10G SFP+	360 W	L3
S5700-24GP-4FR	24 × GE PoE	4 × GE SFP	360 W	L3
PS3024GS-250W / 400W	24 × GE PoE	2 × GE SFP	250 W / 400 W	L2

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

Notes

- PoE budget is stated as 700 W for the unit supplied in Saudi Arabia. Some of the manufacturer's published material quotes 360 W; confirm the figure with us in writing before committing it to a tender.
- Specifications are taken from the manufacturer's published data and are subject to change without notice.
- Foredge is a trademark of Shenzhen Fengrunda Technology Co., Ltd. All other marks are the property of their respective owners.

AUTHORIZED DISTRIBUTOR · KINGDOM OF SAUDI ARABIA

**Ibtikar Smart Solutions for Information
Technology**WhatsApp 054 310 2345 · info@ibtikar.com.sa