

10G UPLINK LAYER 3 MANAGED FIBRE SWITCHES

S5700-24F-8G-4TF

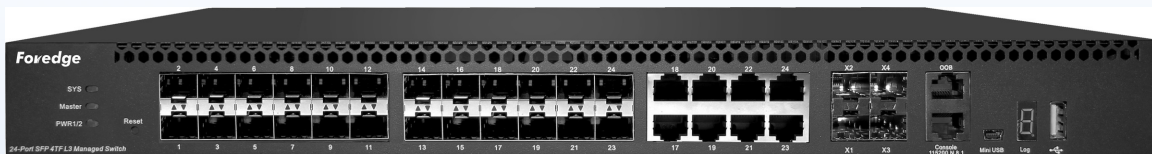
10G Uplink 24-Port Gigabit Fibre Layer 3 Managed Switch

Layer 3 Routing

24 Fibre Ports

Dual Redundant Power

Out-of-Band Management



Front panel — 24 SFP fibre ports, 8 gigabit combo ports, 4 SFP+ uplinks and the management ports

The S5700-24F-8G-4TF is a fibre aggregation switch for distribution and core layers. Twenty-four Gigabit SFP ports, eight gigabit RJ45 combo ports and four 10 Gigabit SFP+ uplinks sit on a 128 Gbps fabric at 95.2 Mpps, with full IPv4 and IPv6 routing, dual redundant power input and out-of-band management. It is the switch that collects fibre runs from a campus, an ISP distribution point or a multi-building site.

24

Gigabit SFP ports

8

GE RJ45 combo

4 × 10G

SFP+ uplinks

128 Gbps

Switching capacity

95.2 Mpps

Forwarding rate

Dual PSU

Redundant input

Key Capabilities

Twenty-Four Fibre Ports in 1U

Twenty-four Gigabit SFP slots collect fibre runs from across a campus or a multi-building site into a single rack unit, with eight gigabit RJ45 combo ports for the copper that arrives at the same rack.

Dual Redundant Power Input

Two power inputs feed the switch; either one alone keeps it running. On an aggregation switch that carries a whole building, a failed supply becomes a maintenance ticket instead of an outage.

Out-of-Band Management

An RJ45 console port, a Mini-USB console port, a dedicated 10/100 management port and a USB 2.0 interface. The management port stays reachable when the data plane is congested or misconfigured.

Ten Gigabit Uplinks

Four SFP+ slots at 10 Gbps carry the aggregate to the core, on a 128 Gbps non-blocking fabric at 95.2 Mpps with a 12 Mb packet buffer and a 16 K MAC table.

True Layer 3 Routing

IPv4 static routes, RIP v1/v2 and OSPFv2, plus IPv6 static routes, RIPng and OSPFv3, with a DHCP server and relay — enough to run the distribution layer without 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.

Typical Applications

Campus & multi-building sites

ISP distribution points

Data-centre edge

Core and distribution layers

Fibre-fed CCTV aggregation

Protection Built Into Every Port

Hardware protection layers that keep an 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	S5700-24F-8G-4TF
Network interface	24 × Gigabit SFP ports · 8 × 10/100/1000 Mbps RJ45 combo ports · 4 × 10 Gigabit SFP+ ports
Management interface	1 × RJ45 console port · 1 × Mini-USB console port · 1 × 10/100 Mbps management port · 1 × USB 2.0
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
Switching capacity	128 Gbps
Packet forwarding rate	95.2 Mpps
MAC address table	16 K
Packet buffer	12 Mb
Forwarding mode	Store and forward
Power over Ethernet	Not supported on this model
LED indicators	28 × 1000M Link/Act · 24 × 10/100M Link/Act · 1 × Power · 1 × SYS
Input power	AC 100–240 V, 50/60 Hz — dual redundant power input
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 · Foreedge Apollo cloud platform

Ordering Information

MODEL	DESCRIPTION
S5700-24F-8G-4TF	24 × Gigabit SFP + 8 × Gigabit RJ45 combo + 4 × 10 Gigabit SFP+ · Layer 3 managed · dual redundant power · 1U rack mount · no PoE

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 SFP fibre ports, 8 gigabit combo ports, 4 SFP+ uplinks and the management ports

Panel Reference

SFP 1 – 24	Gigabit SFP fibre ports
Combo 1 – 8	10/100/1000 Mbps RJ45, shared with SFP
SFP+ 1 – 4	10 Gigabit fibre uplink
Console	RJ45 and Mini-USB console ports
Management	Dedicated 10/100 Mbps out-of-band port · USB 2.0
Power	Dual redundant AC input, 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
SF310M-LC-500M	Gigabit SFP · multimode · 850 nm · LC · DDM	up to 500 m
SF312A-LC-10KM	Gigabit SFP · single-mode · 1310 nm · LC · DDM	up to 10 km

The four uplink slots take 10 Gigabit SFP+ modules; the twenty-four access slots take Gigabit SFP modules.

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

- This model does not supply Power over Ethernet. Cameras and access points need a separate PoE switch or midspan injector.
- Stock of this model is limited. Confirm availability with us before committing it to a design.
- 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.

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