

GIGABIT LAYER 2 MANAGED POE SWITCHES

PS3024GS-250W

24-Port Gigabit Layer 2 Managed PoE Switch

Managed Layer 2

250 W PoE Budget

Console · SNMP · Apollo

6 kV Surge Protection



Front panel — 24 gigabit PoE ports, 2 SFP fibre uplinks, console port and the AI mode button

The PS3024GS is a fully managed gigabit PoE switch for surveillance and Wi-Fi networks. Twenty-four gigabit PoE ports and two gigabit SFP uplinks are backed by a 52 Gbps non-blocking fabric and a complete Layer 2 feature set — 4 K VLANs, L2-L4 ACLs, eight QoS queues, STP/RSTP/MSTP, 802.1X with Radius and Tacacs+, SNMP v1/v2/v3, a local console port and Apollo cloud management.

24

Gigabit PoE ports

250 W

PoE power budget

2

Gigabit SFP uplinks

52 Gbps

Switching capacity

38.7 Mpps

Forwarding rate

Layer 2

Fully managed

Key Capabilities

Full Gigabit PoE Access

Twenty-four 10/100/1000 Mbps ports, every one IEEE 802.3af/at compliant at up to 30 W, within a %s W budget — %s or access points on a single 1U chassis.

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 CPU protection.

PoE You Can Schedule

Power limiting, per-port priority, scheduled supply windows and live chip-status readout — cameras can be powered down overnight, and the least important port sheds first when the budget is exceeded.

Managed, With a Console Port

Web over HTTP, HTTPS and SSL v3; CLI over Telnet, SSH or the local console port at 115200 baud; SNMP v1/v2/v3 and RMON. When a site loses its network, the console port is the way back in.

Resilience and Aggregation

STP, RSTP and MSTP with loop, root-bridge, TC and BPDU protection, 50 ms switchover on the fibre ports, and up to 32 static or dynamic link-aggregation groups.

6 kV Surge Protection on Every Port

All ports carry 6 kV lightning protection, with PSE short-circuit protection, 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

Four AI Modes, One Front-Panel Button

A button on the front panel enables each mode instantly — no console, no configuration.

AI VLAN

Isolates the access ports from one another, suppressing broadcast storms and lifting network performance.

AI Extend

Ports 1–8 switch to long-reach mode and carry power and data up to 250 m on Cat 5e or better.

AI PoE

Watches each powered device and cuts then restores power automatically when one stops responding.

AI QoS

Gives identified video traffic priority under congestion so camera streams stay smooth.

Technical Specifications — Hardware

Product model	PS3024GS
Network interface	24 × 10/100/1000 Mbps RJ45 PoE ports · 2 × Gigabit SFP fibre ports · 1 × Console port (115200 baud)
Standards	IEEE 802.3, 802.3i, 802.3u, 802.3ab, 802.3z, 802.3ad, 802.3x, 802.3af/at, 802.1p, 802.1q, 802.1w, 802.1d, 802.1s
Switching capacity	52 Gbps
Packet forwarding rate	38.7 Mpps
MAC address table	8 K
Packet buffer	4.1 Mb
Forwarding mode	Store and forward
PoE standards	IEEE 802.3af / IEEE 802.3at
PoE power	250 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
Input power	AC 100–240 V, 50/60 Hz
Dimensions (L×W×H)	440 × 180 × 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

VLAN	4 K VLANs · 802.1Q VLAN · MAC VLAN · IP VLAN · Voice VLAN
DHCP	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
PS3024GS-250W	24 × 10/100/1000 Mbps PoE RJ45 + 2 × Gigabit SFP + console · Layer 2 managed · 250 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, 2 SFP fibre uplinks, console port and the AI mode button

Panel Reference

Ports 1 – 24	10/100/1000 Mbps RJ45 with PoE output
SFP 1 – 2	Gigabit fibre uplink
Console	RJ45 console port, 115200 baud
AI button	Cycles AI VLAN · AI Extend · AI PoE · AI QoS
Indicators	Power, plus Link/Act and PoE per port
Power	Internal supply, AC 100–240 V

Recommended Optical Modules

MODEL	TYPE	REACH
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 uplink slots are Gigabit SFP. 10 Gigabit SFP+ modules (SF410M-LC-300M, SF412A-LC-10KM) are not compatible.

Related Foredge PoE Switches

MODEL	ACCESS PORTS	UPLINK	POE BUDGET	MANAGEMENT
PS3024GS-250W	24 × GE PoE	2 × GE SFP	250 W	Managed L2
PS3024GS-400W	24 × GE PoE	2 × GE SFP	400 W	Managed L2
AI1016G	16 × GE PoE	2 × GE SFP	150 W	Plug and play
AI2010GX	8 × GE PoE	2 × GE SFP	96 W	Managed L2
S5700-24GP-4TFR	24 × GE PoE	4 × 10G SFP+	300 W	Managed L3

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

Notes

- This model is stocked in two power ratings: PS3024GS-250W and PS3024GS-400W. They are identical apart from the PoE budget — this sheet covers the 250 W build. State the rating you need when ordering.
- AI Extend applies to ports 1–8 only, and requires Cat 5e cable or better.
- 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.