

INDUSTRIAL POE SWITCHES · DIN RAIL

IS108GPS-2F

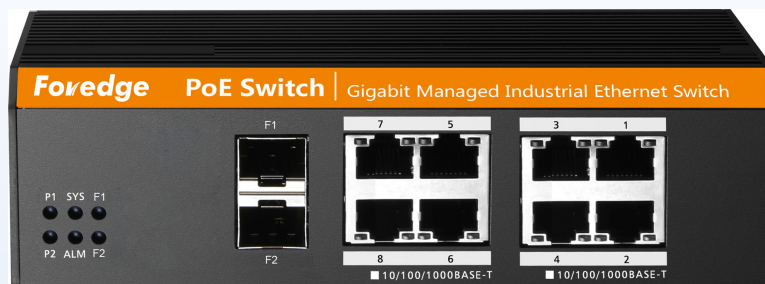
10-Port Gigabit Managed Industrial PoE Switch

Managed Layer 2

RUN-Ring < 10 ms

Dual DC · DIN Rail

EMC Level 4



8 gigabit PoE ports, 2 SFP fibre uplinks, console port and the dual-DC power terminal

The IS108GPS-2F is the managed industrial PoE switch in the range. Eight gigabit PoE ports, two gigabit SFP uplinks and a console port sit in a fanless IP40 aluminium body rated from -40 to 75°C , fed by dual DC sources. On top of the industrial build it carries a full managed feature set — RUN-Ring self-healing in under 10 ms, 4 K VLANs, L2–L4 ACLs, 802.1X, SNMP v1/v2/v3 and a relay alarm output.

8 + 2

GE PoE + GE SFP

246 W

PoE full-load power

< 10 ms

RUN-Ring recovery

 $-40...75^{\circ}\text{C}$

Operating range

IP40

Fanless aluminium

Layer 2

Fully managed

Key Capabilities

RUN-Ring: Recovery in Under 10 ms

Wire the switches into a ring and the network heals itself when a fibre is cut or a cabinet loses power — in under 10 milliseconds, faster than a camera stream drops a frame. This is the feature a perimeter or tunnel design is built around.

Two DC Feeds and a Relay Alarm

Dual 48–56 V DC inputs on a pluggable 5-pin terminal block with reverse-polarity tolerance, plus a relay alarm output that fires on power failure, port disconnection or a PoE fault — a dry contact into the SCADA or alarm panel already on site.

EMC Level 4 Immunity

± 8 kV contact and ± 15 kV air ESD, ± 6 kV surge on data ports, ± 4 kV EFT on the power port — the immunity class specified for substations, production lines and traffic cabinets.

Built for the Cabinet Outside

A sealed IP40 corrugated aluminium body with no fan and no filter to clog, rated from -40 to 75°C , storage to 85°C — it runs in an unconditioned roadside cabinet through a Riyadh summer.

Managed, With a Console Port

Web over HTTP, HTTPS and SSL v3; CLI over Telnet, SSH or the local serial console; SNMP v1/v2/v3, LLDP and RMON; 4 K VLANs, L2–L4 ACLs, eight QoS queues and STP/RSTP/MSTP.

Gigabit PoE at 246 W

Eight IEEE 802.3af/at ports at up to 30 W each, 246 W at full load on 52 V DC, with power limiting, per-port priority, scheduled supply windows and live chip-status readout.

Typical Applications

Car parks & barriers

Factories & production lines

Roads & tunnels

Substations & utilities

Perimeter & gate cameras

Technical Specifications — Hardware

Product model	IS108GPS-2F
Network interface	8 × 10/100/1000 Mbps RJ45 PoE ports · 2 × 10/100/1000 Mbps SFP fibre ports · 1 × Console port
Standards	IEEE 802.3, 802.3i, 802.3u, 802.3ab, 802.3z, 802.3af/at, 802.3ad, 802.3x, 802.1p, 802.1q, 802.1w, 802.1d, 802.1s
Switching capacity	20 Gbps (non-blocking)
Packet forwarding rate	14.9 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	246 W at full load on 52 V DC · 30 W maximum per port
PoE pinout	1/2 (+), 3/6 (–)
Input voltage	48–56 V DC
Input terminal	Pluggable terminal block, 5.08 mm pitch — dual DC source backup, built-in protection, reverse-polarity tolerant
No-load power	6 W at 52 V DC
Protection	6 kV surge on all ports · PoE short-circuit, over-current and over-temperature protection · over-voltage and surge-current protection
LED indicators	Power: P1, P2 · System: SYS · Alarm: ALM · Fibre Link/Act F1–F2 · PoE and Link/Act 1–8
Enclosure	Corrugated high-strength aluminium, IP40
Mounting	DIN rail
Dimensions (L×W×H)	163 × 110 × 46.5 mm
Operating temperature	–40 °C to 75 °C
Storage temperature	–40 °C to 85 °C
Humidity	5 % – 95 % RH, non-condensing
Certification	CE · RoHS · FCC
EMC	EMI: FCC CFR47 Part 15, EN55022/CISPR22 Class A · EMS Level 4: ESD ±8 kV contact / ±15 kV air · surge ±6 kV data, ±4 kV CM power · EFT ±4 kV power, ±2 kV data · vibration, shock and free-fall tested to IEC 60068

Rated for the Field, Not the Server Room

What separates an industrial switch from a rack switch put in a roadside box.

-40 to 75 °C

No fan, no vent: a sealed IP40 aluminium body rated for the full industrial temperature band.

Dual DC Input

Two independent 48–56 V DC feeds on a pluggable terminal block, with reverse-polarity and over-voltage protection.

EMC Level 4

±8 kV contact ESD, ±6 kV data-port surge, ±4 kV power EFT — the immunity class asked for on roadside and plant cabinets.

DIN Rail

Anti-vibration DIN-rail mounting, tested to IEC 60068 for vibration, shock and free fall.

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
Ring redundancy	RUN-Ring self-healing ring, recovery in under 10 ms · relay alarm output on power failure, port disconnection and PoE fault
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 snooping · multicast VLAN · multicast filtering, packet statistics and unknown-multicast discard
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
IS108GPS-2F	8 × 10/100/1000 Mbps PoE RJ45 + 2 × Gigabit SFP + console · Layer 2 managed with RUN-Ring · 246 W PoE · 48–56 V DC · DIN rail · -40 to 75 °C

Panel Reference

Ports 1 – 8	10/100/1000 Mbps RJ45 with PoE output
F1 – F2	Gigabit SFP fibre uplink — ring or point-to-point
Console	Local serial console port
Power terminal	Pluggable 5-pin block, 5.08 mm pitch — dual 48–56 V DC input
Relay alarm	Dry-contact output on power failure, port disconnection or PoE fault
Indicators	P1, P2, SYS and ALM, plus Link/Act and PoE per port

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 Industrial Switches

MODEL	ACCESS PORTS	UPLINK	POE BUDGET	MANAGEMENT
IS108GP-2F	8 × GE PoE	2 × GE SFP	186 W	Unmanaged
IS108GPS-2F	8 × GE PoE	2 × GE SFP	246 W	Managed L2 · RUN-Ring

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

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.

Notes

- RUN-Ring is a Foredge ring protocol. All switches in the ring must be Foredge models that support it; it does not interoperate with another vendor's ring technology.
- This switch takes 48–56 V DC only. It has no internal AC supply — a DIN-rail power supply must be specified with it.
- The manufacturer's product introduction refers to the model as IS108GS-2F in places; the specification tables and the ordering code are IS108GPS-2F, the PoE version.
- 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.