DATA SHEET



FortiSwitch™ Rugged 112D-POE

High performance for harsh environments



FortiSwitch Rugged

FSR-112D-POE

High performance for harsh environments

FortiSwitch Rugged FSR-112D-POE switches deliver all of the performance and security of the trusted FortiSwitch line, but with added reinforcement that makes them ideal for deployments in harsh outdoor environments.

Resilient, sturdy and capable of withstanding intense temperature fluctuations, FortiSwitch Rugged ensures the integrity and performance of mission-critical networks in even the most challenging of deployments.

Add Ruggedized FortiGate for Tough and Powerful Protection

Engineered to survive in hostile environments with an extreme temperature range, the combination of FortiGate Rugged network security appliances with the FortiSwitch Rugged provides a connected network security solution.

Simple Network Deployment

The Power over Ethernet (PoE) capability enables simple installation of cameras, sensors and wireless access points in the network, with power and data delivered over the same network cable.

There is no need to contract electricians to install power for your PoE devices, reducing your overall network TCO.

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Highlights

- Mean time between failure greater than 25 years
- Fanless passive cooling
- DIN-rail or wall-mountable
- Power over Ethernet capable including PoE+
- 8x GE RJ45 and 4x GE SFP slots
- Redundant power input terminals

Key Features & Benefits

Sturdy IP30 construction	Built to ingress protection 30 standards, the construction of the FSR-112D-POE is designed to perform while enduring hostile conditions.
Passive cooling	With no fan and no moving parts, the mean time between failure for the FSR-112D-POE is greater than 25 years.
Redundant power inputs	Maximizes network availability by eliminating the downtime associated with failure of a power input.
Power over Ethernet capability	Seamless integration of peripheral devices such as cameras, sensors and wireless access points into the network.

SPECIFICATIONS

	FSR-112D-POE
Ethernet	
Ethernet interface	8x GE RJ45 (including 8x PoE/PoE+ capable ports), 4x GE SFP slots PoE is 802.3 af PoE+ is 802.3at
Console interface	DB9 connector
Operating mode	Store and forward, L2/L3 wire-speed/non-blocking switching engine
MAC addresses	8K
Copper RJ45 Ports	
Speed	10/100/1000 Mbps
MDI/MDIX auto-crossover	Support straight or cross wired cables
Auto-negotiating	10/100/1000 Mbps speed auto-negotiation; Full and half duplex
PoE+ (PSE)	IEEE 802.3at, up to 30 W per RJ45 GE port (up to 8 PoE+ ports)
SFP (pluggable) Ports	
Port types supported	Gigabit fiber multimode, fiber single mode, fiber long-haul single mode 1000Base(SX/LX/ZX)
Fiber port connector	LC typically for fiber (depends on module)
Power	
Power input	Redundant input terminals
Input voltage range	44–57 VDC (for PoE model), 12–57 V (non-PoE model), 44–49 V input voltage can support PoE (802.3af) on all ports, 50–57 V input voltage can support PoE+ (802.3at) on all ports.
Reverse power protection	Yes
Switch power	With 8x PoE+ sources, the switch itself draws 10.4 W
Heat dissipation	The switch dissipates 69.6 BTU with 8x PoE+ devices attached

	FSR-112D-POE
Indicators	
Power status indication	Indication of power input status
PoE indication	PoE port status
Ethernet port indication	Link and speed
Environmental and Compliances	
Operating temperature range	-40–167°F (-40–75°C) cold startup at -40°C/°F)
Storage temperature range	-40–185°F (-40–85°C)
Humidity (non-condensing)	5–95% RH
EMI	Radiated Emission: CISPR 22, EN55022 Class B Conducted Emission: EN55022 Class B
EMS	ESD: IEC61000-4-2 Radiated RF (RS): IEC61000-4-3 EFT: IEC61000-4-4 Surge: IEC61000-4-5 Conducted RF (CS): IEC61000-4-6
RoHS and WEEE	RoHS (Pb free) and WEEE compliant
MTBF	> 30 years
Cooling	Fanless
Mechanical	
Ingress protection	IP30
Dimensions (w x d x h)	3.8 x 4.15 x 6.06 inches (96.4 x 105.5 x 154 mm)
Weight	2.7 lbs (1230 g)
Installation option	DIN-Rail mounting, wall mounting
Software	
L2	Dedicated VLANs for user ports. 802.1Q tagged frame on upstream ports. 802.1s(spanning tree), 802.1w(RSTP)
Multicast	Support for at least 250 Mbps multicast performance across all sources.
Warranty	
Fortinet warranty	Limited lifetime*

* Fortinet Warranty Policy: **http://www.fortinet.com/doc/legal/EULA.pdf**

ORDER INFORMATION

Product	SKU	Description
FortiSwitch Rugged 112D-POE	FSR-112D-POE	Ruggedized L2 PoE Switch — 8x GE RJ45 (including 8x PoE/PoE+ capable ports), 4x GE SFP slots, FortiGate switch controller compatible.
Accessories		
1 GE SFP LX transceiver module	FG-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP RJ45 transceiver module	FG-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP SX transceiver module	FG-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP SX transceiver, MMF, -40–85°C operation	FR-TRAN-SX	1 GE SFP SX transceiver module, -40–85°C, over MMF, for all systems with SFP and SFP/SFP+ slots.
1 GE SFP LX transceiver, SMF, -40–85°C operation	FR-TRAN-LX	1 GE SFP LX transceiver module, -40–85°C, over SMF, for all systems with SFP and SFP/SFP+ slots.
1 GE SFP ZX transceiver, 90 km range, -40–85°C operation	FR-TRAN-ZX	1 GE SFP ZX transceiver module, -40–85°C, 90 km range, for all systems with SFP and SFP/SFP+ slots.

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