

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

NIM-4FXSP

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	NIM-4FXSP
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
Supplier	Layer23-Switch.com

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NIM-4FXSP Datasheet

The Cisco NIM-4FXSP datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the NIM-4FXSP and integrate it into enterprise or service provider networks with confidence.

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Key Features

Four FXS Ports with DID Option

Provides four analog station interfaces with DID capability, supporting analog phones, fax machines, key systems, and inbound PSTN lines.

Integrated DSP for Advanced Voice

Includes built-in DSP for TDM voice features, eliminating the need for router PVDMs and enabling echo cancellation up to 128 ms, VAD, and comfort noise generation.

Comprehensive Codec Portfolio

Supports G.711, G.729a, G.726, plus G.723 and iSAC for efficient bandwidth utilization and compatibility across enterprise WAN deployments.

Enterprise-Grade Telephony Features

Delivers caller-ID generation, battery polarity reversal, Message Waiting Indicator (MWI), cable detection, and long-loop support, enhancing analog line reliability.

Legacy Device and Fax/Modem Support

Compatible with T.38 fax relay, fax pass-through, and modem pass-through, ensuring reliable operation of legacy fax machines and dial-up devices.

Seamless UC Integration

Supports OIR on ISR 4300/4400 platforms, SNMP/MIB-based manageability, and interoperability with SCCP, H.323, SIP, and MGCP 1.0 under Cisco IOS XE.

Specification

Parameter	Specification	Parameter	Specification
Model	NIM-4FXSP (4-port FXS with Power Network Interface Module)	Form factor	NIM plug-in module for Cisco ISR 4000 Series Routers
Ports	4 × FXS, RJ-11 connectors with integrated power feed	Interface type	Foreign Exchange Station (FXS) with internal battery and ring generator
Platform support	Cisco ISR 4321, 4331, 4351, 4431, 4451	Online Insertion/Removal (OIR)	Supported
Typical devices connected	Analog telephones, fax machines, analog modems, key systems	Loop current	20-30 mA nominal (powered FXS interface)
Ring voltage	Up to 75 Vrms, 20-25 Hz	REN capacity	Up to 5 REN per port
Signaling	Loop start, Ground start	Caller ID	Supported (Type I/II, Bellcore and ETSI formats)
Voice codecs	G.711 (A/μ-law), G.729a/b, G.726, G.723.1	Fax/Modem	T.38 Fax Relay, Fax/Modem passthrough
Protocol interworking	SIP, SCCP, H.323, MGCP 1.0	RTP features	RTP/RTCP, RFC 4733 (DTMF relay)
Echo cancellation	Up to 128 ms tail length	Voice optimizations	VAD, CNG, cRTP (Compressed RTP)
DSP resources	On-module DSP (no chassis PVDM required)	Country configuration	Software-selectable (global homologation)
Cabling	2-wire analog, straight-through RJ-11	Use cases	Analog voice, fax, or powered analog phone connectivity in branch gateways
Minimum software	Cisco IOS XE 3.13 or later (Unified Communications feature set)	Management	CLI (console/SSH), SNMP, Cisco Prime Collaboration
Regulatory compliance	TIA-968-B (US), CS-03 (CA), AS/CA S002/S003 (AU), TBR 21 (EU)	Weight	Approx. 0.47 lb (≈213 g)
Power consumption	Up to 18 W (due to built-in ring generator and power feed)	Operating temperature	0°C to 40°C (32°F to 104°F)
Ordering PID	NIM-4FXSP	Warranty	Per Cisco standard hardware warranty policy

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Why Layer23-Switch.com

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