

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

NIM-2FXS/4FXO

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	NIM-2FXS/4FXO
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
Supplier	Layer23-Switch.com

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NIM-2FXS/4FXO Datasheet

The Cisco NIM-2FXS/4FXO datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the NIM-2FXS/4FXO and integrate it into enterprise or service provider networks with confidence.

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Key Features

Hybrid FXS/FXO Design

Provides 2 FXS ports with DID capability plus 4 FXO ports, combining analog station support and PSTN trunk connectivity on one module.

Integrated DSP for Voice Services

Onboard DSP eliminates the need for router PVDMs, enabling time-division multiplexed voice, echo cancellation up to 128 ms, and consistent call quality.

Extensive Codec Coverage

Supports G.711, G.729a, G.726, plus G.723 and iSAC, ensuring flexible bandwidth optimization and interoperability across enterprise voice networks.

Enterprise Telephony Features

Offers caller-ID generation (FXS), detection (FXO), battery polarity reversal, Message Waiting Indicator (MWI), cable detection, and overload protection.

Legacy Device Compatibility

Delivers T.38 fax relay, fax pass-through, and modem pass-through for analog fax machines, POS systems, alarms, and dial-up devices in critical industries.

Unified Communications Integration

Supports OIR on ISR 4300/4400 routers, SNMP/MIB management, and interworks with SCCP, H.323, SIP, and MGCP 1.0 under Cisco IOS XE software.

Specification

Parameter	Specification	Parameter	Specification
Model	NIM-2FXS/4FXO (2-port FXS + 4-port FXO Network Interface Module)	Form factor	NIM plug-in module for Cisco ISR 4000 Series
Ports	2 × FXS and 4 × FXO, RJ-11 connectors	Interface type	Mixed Foreign Exchange Station (FXS) and Foreign Exchange Office (FXO)
Platform support	Cisco ISR 4321, 4331, 4351, 4431, 4451	Online Insertion/Removal (OIR)	Supported
Typical devices connected (FXS)	Analog telephones, fax machines, modems, key systems	Typical devices connected (FXO)	PSTN lines, PBX trunks, analog CO connections
Signaling (FXS)	Loop start, Ground start	Signaling (FXO)	Loop start, Ground start
Ring voltage (FXS)	Up to 75 Vrms, 20–25 Hz	Loop current (FXS)	20 mA to 30 mA nominal
Caller ID / Polarity reversal	Supported (Type I/II)	Battery reversal detection (FXO)	Supported
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	Mixed analog device & PSTN connectivity in branch voice gateways
Minimum software	Cisco IOS XE 3.13 or later (UC license)	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. 0.48 lb (≈220 g)
Power consumption	Under 12 W typical	Operating temperature	0°C to 40°C (32°F to 104°F)
Ordering PID	NIM-2FXS/4FXO	Warranty	Per Cisco standard hardware warranty policy

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Why Layer23-Switch.com

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Contact Us

- WhatsApp: [+8617181189993](https://wa.me/8617181189993)
- Wechat: [layer23-switch](#)
- Telegram: [layer23_switch](#)
- Email: sales@layer23-switch.com

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