

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

NIM-4FXO

Cisco Network Hardware Specification, Availability and Quote Reference

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

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NIM-4FXO Datasheet

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

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Key Features

4 FXO

analog ports provide reliable connectivity to PSTN and PBX systems, supporting both loop-start and ground-start signaling for global interoperability in enterprise and carrier networks.

Built-in DSP

delivers advanced voice processing without the need for motherboard PVDs, enabling time-division multiplexed (TDM) analog voice, up to 128-ms echo cancellation, voice activity detection, comfort noise generation, and high call quality in diverse environments.

Extensive codec support

(G.711, G.729a, G.726, plus G.723 and iSAC with iLBC on roadmap) allows bandwidth-efficient voice compression, making the module suitable for branch offices with limited WAN capacity or high-density voice deployments.

Advanced enterprise telephony functions

such as caller ID, battery-reversal detection, call detail records (CDR), cable detection, and overload protection ensure secure and manageable analog trunk integration with modern Unified Communications.

Legacy device compatibility

includes fax relay with T.38, fax pass-through, and modem pass-through, supporting industries like healthcare, retail, and government that continue to rely on analog fax machines and legacy dial-up equipment.

Operational simplicity

and resiliency through online insertion and removal (OIR) on Cisco ISR 4300/4400 Series routers, combined with SNMP/MIB manageability, flexible IOS XE release support, and Unified Communications technology package integration.

Specification

Parameter	Specification	Parameter	Specification
Model	NIM-4FXO (4-port FXO Network Interface Module)	Form factor	NIM plug-in module for Cisco ISR 4000 Series
Ports	4 × FXO, RJ-11 connectors	Interface type	Foreign Exchange Office (FXO), universal type
Platform support	Cisco ISR 4321, 4331, 4351, 4431, 4451	Online Insertion/Removal (OIR)	Supported
Signaling	Loop start, Ground start	Caller ID / Polarity reversal	Supported (Type I/II)
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	128 ms tail length	Voice optimizations	VAD, CNG, cRTP (Compressed RTP)
DSP resources	On-module DSP (no router PVDM required)	Country configuration	Software-selectable (global homologation)
Cabling	2-wire analog, straight-through RJ-11	Use cases	PSTN access, analog PBX trunks, branch voice gateway
Minimum software	Cisco IOS XE 3.13 or later (UC license)	Management	CLI (console/SSH), SNMP MIB-II, Cisco Prime Collaboration
Regulatory compliance	TIA-968-B (US), CS-03 (CA), AS/CA S002/S003 (AU), TBR 21 (EU)	Weight	Approx. 0.46 lb (≈210 g)
Power consumption	Under 10 W	Operating temperature	0°C to 40°C (32°F to 104°F)
Ordering PID	NIM-4FXO	Warranty	Per Cisco hardware standard warranty

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