

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

NIM-2FXS

Cisco Network Hardware Specification, Availability and Quote Reference

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

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NIM-2FXS Datasheet

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

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Key Features

Dual FXS Analog Ports with DID Capability

Equipped with two Foreign Exchange Station ports that can also operate as Direct Inward Dial (DID) interfaces, allowing seamless connection of analog phones, fax machines, key systems, and inbound-only DID lines from the PSTN.

Integrated DSP for Advanced Voice Processing

Onboard digital signal processor eliminates the need for external PVDMs, enabling time-division multiplexed (TDM) analog voice, echo cancellation up to 128 ms, voice activity detection, comfort noise generation, and consistent call quality in demanding environments.

Comprehensive Codec Support for Bandwidth Efficiency

Supports industry-standard codecs such as G.711, G.729a, G.726, along with G.723 and iSAC, ensuring flexible bandwidth optimization and compatibility with diverse WAN conditions and enterprise telephony deployments.

Enhanced Enterprise Telephony Features

Provides caller-ID generation, battery polarity reversal, Message Waiting Indicator (MWI), cable detection, and long-loop support, enabling integration with legacy telephony devices while ensuring reliable and manageable station operation.

Legacy Device and Fax/Modem Compatibility

Built-in support for T.38 fax relay, fax pass-through, and modem pass-through ensures continued use of analog fax machines and legacy dial-up devices in sectors such as healthcare, government, utilities, and retail.

Simplified Operations and Unified Communications Integration

Supports online insertion and removal (OIR) for minimal downtime, SNMP/MIB-based manageability, and full interoperability with SCCP, H.323, SIP, and MGCP 1.0 protocols under Cisco IOS XE software, ensuring smooth integration into modern Unified Communications environments.

Specification

Parameter	Specification	Parameter	Specification
Model	NIM-2FXS (2-port FXS Network Interface Module)	Form factor	NIM plug-in module for Cisco ISR 4000 Series
Ports	2 × FXS, RJ-11 connectors	Interface type	Foreign Exchange Station (FXS), universal
Platform support	Cisco ISR 4321, 4331, 4351, 4431, 4451	Online Insertion/Removal (OIR)	Supported
Typical devices connected	Analog phones, fax machines, modems, or key systems	Loop current	20 mA to 30 mA
Signaling	Loop start, Ground start	Ring voltage	Up to 75 Vrms, 20–25 Hz
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	Analog device connectivity for voice gateway, branch office telephony
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. 0.42 lb (≈190 g)
Power consumption	Under 10 W	Operating temperature	0°C to 40°C (32°F to 104°F)
Ordering PID	NIM-2FXS	Warranty	Per Cisco hardware standard warranty

Want to Buy

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Why Layer23-Switch.com

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