

# NIM-ES2-4= Datasheet

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## Overview

Cisco NIM-ES2-4= is a Cisco 4000 Series Integrated Services Router 4-Port Gigabit Ethernet Switch Module. The 4-port Cisco Gigabit Ethernet LAN Switch Network Interface Modules (NIMs) can reduce your company's total cost of ownership (TCO) by integrating Gigabit Ethernet switch ports within Cisco 4000 Series Integrated Services Routers (ISRs). These low-density Gigabit Ethernet switches offer small to medium-sized businesses and enterprise branch offices a combination of switching and routing integrated into a single device

Notice that NIM-ES2-4= is the same as NIM-ES2-4.

## Quick Specs

Figure 1 shows the appearance of NIM-ES2-4=.



Table 1 shows the Quick Specs.

<b>Product Code</b>	NIM-ES2-4=
<b>Form factor</b>	Single-wide NIM form factor
<b>Ports</b>	4-port Gigabit Ethernet
<b>Dimensions (H x W x D)</b>	0.8 x 3.1 x 4.8 in. (2.1 x 7.9 x 12.2 cm)
<b>Weight</b>	79g (0.17 lb)

## Platform Support

Table 2 shows recommended platforms that support the 4-port Cisco Gigabit Ethernet LAN Switch NIMs.

Platform	Platform Maximum Support
Cisco 4221	2

Cisco 4321	2
Cisco 4331	2
Cisco 4351	3
Cisco 4431	3
Cisco 4451	3

## Compare to Similar Items

Table 3 shows the similar items.

<b>Model</b>	NIM-ES2-4=	<a href="#">NIM-ES2-8</a>
<b>Form factor</b>	Single-wide NIM form factor	Single-wide NIM form factor
<b>Ports</b>	4-port Gigabit Ethernet	8-port Gigabit Ethernet
<b>Dimensions (H x W x D)</b>	0.8 x 3.1 x 4.8 in. (2.1 x 7.9 x 12.2 cm)	0.8 x 6.2 x 4.8 in. (2.1 x 18.8 x 12.2 cm)
<b>Weight</b>	79g (0.17 lb)	108g (0.24 lb)

## Get more information

Do you have any question about the NIM-ES2-4=?

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## Specification

NIM-ES2-4= Specification	
<b>Form factor</b>	Single-wide NIM form factor
<b>Dimensions (H x W x D)</b>	0.8 x 3.1 x 4.8 in. (2.1 x 7.9 x 12.2 cm)
<b>Weight</b>	79g (0.17 lb)
Standards	
<b>IEEE protocols</b>	<ul style="list-style-type: none"> <li>· Gigabit Ethernet: IEEE 802.3 and 10BASE-T</li> <li>· Gigabit Ethernet: IEEE 802.3u, 100BASE-TX, and 1000BASE-TX</li> <li>· IEEE 802.1d Spanning Tree Protocol</li> <li>· IEEE 802.1p CoS for Traffic Prioritization</li> <li>· IEEE 802.1q VLAN</li> <li>· IEEE 802.1X Security</li> <li>· IEEE 802.3x Full Duplex</li> <li>· IEEE 802.3af Power over Gigabit Ethernet Standard</li> </ul>
<b>RFC</b>	RFC 2284, PPP Extensible Authentication Protocol (EAP)

<b>MIBs</b>	<ul style="list-style-type: none"> <li>· RFC 1213</li> <li>· IF MIB</li> <li>· RFC 2037 ENTITY MIB</li> <li>· CISCO-CDP-MIB</li> <li>· CISCO-IMAGE-MIB</li> <li>· CISCO-FLASH-MIB</li> <li>· OLD-CISCO-CHASSIS-MIB</li> <li>· CISCO-VTP-MIB</li> <li>· CISCO-HSRP-MIB</li> <li>· OLD-CISCO-TS-MIB</li> <li>· CISCO-ENTITY-ASSET-MIB</li> <li>· CISCO-ENTITY-FRU-CONTROL-MIB</li> <li>· BRIDGE MIB (RFC 1493)</li> <li>· CISCO-VLAN-MEMBERSHIP-MIB</li> <li>· CISCO-VLAN-IFINDEX-RELATIONSHIP-MIB</li> <li>· RMON1-MIB</li> <li>· PIM-MIB</li> <li>· CISCO-STP-EXTENSIONS-MIB</li> <li>· OSPF MIB (RFC 1253)</li> <li>· IPMROUTE-MIB</li> <li>· CISCO-MEMORY-POOL-MIB</li> <li>· ETHER-LIKE-MIB (RFC 1643)</li> <li>· CISCO-ENTITY-FRU-CONTROL-MIB.my</li> <li>· CISCO-RTTMON-MIB</li> <li>· CISCO-PROCESS-MIB</li> <li>· CISCO-COPS-CLIENT-MIB</li> </ul>
<b>Manageability</b>	<ul style="list-style-type: none"> <li>· SNMP and Telnet interface support delivers comprehensive in-band management, and a CLI management console provides detailed out-of-band management.</li> <li>· An embedded RMON software agent supports four RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis.</li> <li>· A SPAN port can mirror traffic from one or many ports to another port for monitoring all eight RMON groups with an RMON probe or network analyzer.</li> <li>· Trivial File Transfer Protocol (TFTP) reduces the cost of administering software upgrades by downloading from a centralized location.</li> <li>· Two LEDs per port provide convenient visual indication of the port link and PoE status.</li> <li>· Crash information support enables a switch to generate a crash file for improved troubleshooting.</li> <li>· Show-interface capabilities provide information about the configuration capabilities of any interface.</li> </ul>
<b>Connectors and cabling</b>	<ul style="list-style-type: none"> <li>· 10BASE-T ports: RJ-45 connectors, two-pair Category 3, 4, or 5 unshielded twisted pair (UTP) cabling</li> <li>· 100BASE-TX ports: RJ-45 connectors; two-pair Category 5 UTP cabling</li> <li>· 1000BASE-TX ports: RJ-45 connectors; two-pair Category 5e and Category 6 UTP cabling</li> </ul>
<b>LED indicators</b>	<ul style="list-style-type: none"> <li>· Link status LED: One LED per port for indicating link status</li> <li>· PoE LED: One LED per port system for PoE status indication</li> </ul>
<b>Power Requirements</b>	
<b>Internal power supply</b>	Optional PoE system power supply available for all Cisco 4000 Series routers
<b>Internal redundant power supply</b>	For the Cisco 4431 and 4451 routers only
<b>DC power support</b>	<ul style="list-style-type: none"> <li>· DC system power input available on the Cisco 4351, 4431, and 4451 routers</li> <li>· PoE option not available with DC system power input</li> </ul>
<b>Software support</b>	Minimum Cisco IOS-XE Software Release 3.15 for Cisco 4000 Series routers: IP Base License of the Universal image
<b>Environmental</b>	
<b>Operating temperature</b>	32° to 104°F (0° to 40°C)
<b>Operating humidity</b>	10 to 90 percent, noncondensing
<b>Nonoperating temperature</b>	-4° to 149°F (-20° to 65°C)
<b>Operating altitude</b>	15,000 ft (4,570m)
<b>Regulatory compliance, safety, and EMC</b>	When installed in a Cisco 4000 Series router, the Cisco Gigabit Ethernet LAN Switch NIM meets the standards (regulatory compliance, safety, and EMC) of the router itself. Refer to the data sheets for the Cisco 4000 Series routers for more details.

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