Cisco 1-port ISDN BRI S/T WAN Interface Card

Offering a single ISDN BRI S/T interface, this WIC may require an external Network Termination 1 (NT1), depending on the region of the world. The WIC inserts into a mixed-media network module or directly into the WIC slot on the Cisco 1600, 1700, 1800, 1900, 2600, 2800, 2900, 3600, 3700, 3800, and 3900 Series Integrated Services Routers. The ability to add BRI connectivity through a WIC enables administrators to maximize valuable slot space while providing additional connectivity options, such as Ethernet, on the same module.

Figure 1.   Cisco WIC 1B-S/T-V3 WAN Interface Card

Features

- One ISDN BRI port (S/T interface, requires external NT1)
- Utilizes an RJ-45 connector
- Supported Onboard, NM-1FE2W-V2, NM-1FE1R2W, NM-2FE2W-V2 and NM-2W

Benefits of an Integrated, Fully Managed Solution

The network modules provide various port densities to meet customer requirements at various price points. The optional, integrated NT1 lets customers consolidate customer premises equipment (CPE) to provide multifunction dial access server, router, and other capabilities within the Cisco routers in power-branch-office environments.

The WAN-interface-card (WIC) option offers a single ISDN BRI port (with optional NT1). The WIC-1B-S/T-V3 inserts into a mixed-media network module (part number NM-1FE2W-V2, NM-2FE2W-V2, NM-1FE1R2W or NM-2W) or is supported on the Cisco 1700 Series, Cisco 1800 Series, Cisco 1900 Series, Cisco 2600XM Series, Cisco 2800 Series, Cisco2900 Series, Cisco 3700 Series,Cisco 3800 Series and Cisco 3900 Series routers. It provides a cost-effective ISDN router with the following benefits of integration:

- Fewer devices and cables to deploy and manage
- Remote and local configuration, monitoring, and troubleshooting via the Cisco IOS® Software CLI and Simple Network Management Protocol (SNMP)
- Flexibility and investment protection
- Single-vendor support
- Enhanced reliability

- Physical space savings

The ability to add BRI connectivity via a WIC enables administrators to maximize valuable slot space while providing additional connectivity options on the same module such as Fast Ethernet.

Flexibility and Investment Protection

The Cisco 1 port BRI-S/T WIC extends the Cisco commitment to providing customers with maximum flexibility and investment protection through modular WICs that are supported on award-winning router platforms. When WAN bandwidth requirements or service provider pricing change, users can easily change WAN services either by changing the software configuration or replacing the WIC. Because the same card can be used on Cisco 1600, 1700, 1800, 1900, 2600, 2800, 2900, 3700, 3800, 3900 Series Integrated Services Routers, the number of stocking units can be reduced, and the WIC can be redeployed from one platform to another.

Enhanced Reliability

An integrated solution has fewer components; hence, fewer points of failure (for example, one less power supply and fewer cables). This leads to enhanced reliability.

Consistency with WIC-1B-S/T

The Cisco WIC-1B-S/T-V3 offers all of the features of the Cisco WIC-1B-S/T and can be smoothly deployed without requiring any additional learning.

Table 1.

WIC-1B-S/T	WIC-1B-S/T-V3
One ISDN BRI port (S/T interface, requires external NT1)	One ISDN BRI port (S/T interface, requires external NT1)
RJ-45 connector	RJ-45 connector
Supported on Cisco 1600, 1700, 2600, 3600, and series	Supported on Cisco 1700, 1800, 2600, 2800, 3660, 3700 and 3800 series (see tables below)
Cannot be used with Cisco 1603 or 1604 base units	Cannot be used with Cisco 1603 or 1604 base units
Does not support hot swapping; however, no hardware damage will occur if it is swapped while power is on	Does not support hot swapping; however, no hardware damage will occur if it is swapped while power is on
Can go into slot W0 or W1 of the 1E2W, 2E2W, and 1E1R2W network modules	Does not support the 1E2W, 2E2W, and 1E1R2W, NM-1FE2W, NM-2FE2W network modules
Supported in NM-1FE1R2W, NM-1FE2W, NM-2FE2W, NM-1FE2W-V2, NM-2FE-2W-V2, and NM-2W	Supported Onboard, NM-1FE2W-V2, NM-1FE1R2W, NM-2FE2W-V2 and NM-2W

Cisco IOS Software Release

Platform	Minimum Cisco IOS Release
Cisco 1720, 1721, 1751, 1760	12.3(10)
Cisco 2600 and 2600XM	12.3(10)
Cisco 3660	12.3(10)
Cisco 3700	12.3(10)
Cisco 1800 and 2800	12.3(8)T
Cisco 3800	12.3(11)T
Cisco 1900, 2900 and 3900	15.0(1)M

Note: The Cisco IOS Software releases provided are typically the minimum version required to support the platform, module, or feature in question. Use the Software Advisor to choose appropriate software for your network device: match software features to Cisco IOS and Cisco Catalyst® Operating System (Catalyst OS) releases, compare Cisco IOS releases, or find out which software releases support your hardware. The Software Advisor and other tools are available in TAC Tools for Access-Dial Technologies.

Carrier Module Supported

Platform	Carrier Module Supported
Cisco 1601(R), 1602(R), and 1605-R	Not Supported
Cisco 1603, 1603-R, 1604 and 1604-R	Not Supported
Cisco 1720, 1721, 1751 ,1760	Not Supported
Cisco 1750	Not Supported
Cisco 2600 and 2600XM	Onboard. NM-2W
Cisco 3620 and 3640	Not Supported
Cisco 3660	NM-1FE2W-V2, NM-1FE1R2W, NM-2FE2W-V2 and NM-2W
Cisco 3700	NM-1FE2W-V2, NM-1FE1R2W, NM-2FE2W-V2 and NM-2W
Cisco 1800 and 2800	Onboard
Cisco 3800	Onboard, NM-1FE2W-V2, NM-1FE1R2W, NM-2FE2W-V2 and NM-2W
Cisco 1900, 2900 and 3900	Onboard

Specifications

Product Number	Description
WIC-1B-S/T-V3	1-Port ISDN WAN Interface Card (dial and leased line)

Safety, EMC, Telecom, Network Homologation, Power Requirements

When installed in a Cisco 2600, 3600, 3700, 1800, 1900, 2800, 2900, 3800, 3900 Series Router, the Cisco WIC-1B-S/T-V3 does not change the standards (safety, EMC, telecom, network homologation and power) of the router itself. For more information, see the platform specific data sheets at the following URLs:

- Cisco 2600/2600XM/2691 Series:
  http://www.cisco.com/en/US/prod/collateral/routers/ps259/product_data_sheet0900aecd800fa5be.html
- Cisco 3600 Series: http://www.cisco.com/en/US/products/hw/routers/ps274/products_data_sheets_list.html
- Cisco 3700 Series:
  http://www.cisco.com/en/US/prod/collateral/routers/ps282/product_data_sheet09186a008009203f.html
- Cisco 1800 Series (modular):
  http://www.cisco.com/en/US/products/ps5853/products_data_sheet0900aecd8016a59b.html
- Cisco 2800 Series: http://www.cisco.com/en/US/products/ps5854/index.html
- Cisco 3800 Series:
  http://www.cisco.com/en/US/products/ps5855/products_data_sheet0900aecd8016a8e8.html
- Cisco 1900 Series: http://www.cisco.com/en/US/products/ps10538/index.html
- Cisco 2900 Series: http://www.cisco.com/en/US/products/ps10537/index.html
- Cisco 3900 Series: http://www.cisco.com/en/US/products/ps10536/index.html

Dimensions and Weight

- Dimensions (H x W x D)

  – 1.55 x 7.10 x 7.2 in. 1.55 x 7.10 x 7.2 in. .75 x 3.08x 4.38 in.

- Weight

  – 2 lb max 2 lb max 2.4 oz

Diagnostics

- LEDs

  – Network module status indicator, status LEDs for each B Channel and NT1

- Environmental conditions

  – Operating temperature 32 to 104°F (0 to 40°C),

  – Nonoperating temperature 13 to 158°F (-25 to 70°C)

- Relative humidity

  – to 95% noncondensing

- Cabling

  – RJ-45 connectors

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