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2-Port Async/Sync WAN Interface Card (WIC-2A/S)

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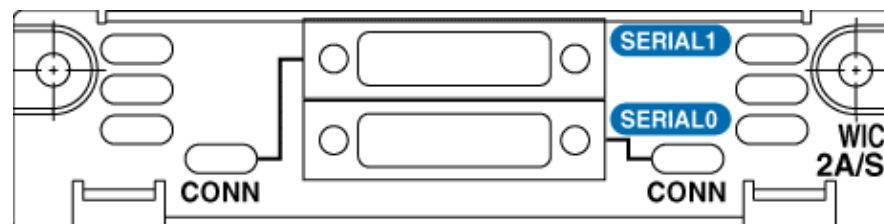
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Introduction

The dual-serial port WAN Interface Card (WIC-2A/S) provides higher levels of serial port density for a single WIC and is supported on the Cisco 1700, 2600, and 3600 series. The low serial speed WIC-2A/S supports up to 128 Kbps synchronous or 115.2 Kbps asynchronous serial links. Each port on a WIC is a different physical interface and can support different protocols such as Point-to-Point Protocol (PPP) or Frame Relay and Data Terminal Equipment/Data Communications Equipment (DTE/DCE). This WIC supports mixed asynchronous and synchronous operation on a single card as well.

These dual-serial port WICs feature Cisco's new, compact, Smart Serial connectors to support a wide variety of electrical interfaces when used with the appropriate transition cable. This includes: V.35, RS-232, RS-449, RS-530, RS-530A in male and female versions for both DTE and DCE devices. This feature provides easy configuration and reconfiguration as network requirements change, without the need of purchasing a different serial interface card.

Two cables are required to support the two ports on the WIC.



Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on the WIC-2A/S.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Product Number

WIC-2A/S Two-Port Asynchronous/Synchronous WIC

Features

The WIC-2A/S provides two serial ports using the Smart Serial connector.

- Asynchronous support with a maximum speed of 115.2 Kbps and a minimum of 600 bps. If you need to run at speeds lower than 600 bps, use the AUX port instead.
- Synchronous support with a maximum speed of 128 Kbps.

Cables

Cable Type	Product Number	Length	Male/Female
V.35 DTE	CAB-SS-V35MT(=)	10 feet / 3 meters	Male
V.35 DCE	CAB-SS-V35FC(=)	10 feet / 3 meters	Female
RS-232 DTE	CAB-SS-232MT(-)	10 feet / 3 meters	Male
RS-232 DCE	CAB-SS-232FC(-)	10 feet / 3 meters	Female
RS-449 DTE	CAB-SS-449MT(-)	10 feet / 3 meters	Male
RS-449 DCE	CAB-SS-449FC(-)	10 feet / 3 meters	Female
X.21 DTE	CAB-SS-X21MT(=)	10 feet / 3 meters	Male
X.21 DCE	CAB-SS-X21FC(=)	10 feet / 3 meters	Female
EIA-530 DTE	CAB-SS-530MT(-)	10 feet / 3 meters	Male

EIA-530A DTE	CAB-SS-530AMT(-)	10 feet / 3 meters	Male
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Platform Support

Platform	Cisco 1600	Cisco 1700	Cisco 2600		Cisco 2600XM		Cisco 3620,3640,3660	
Carrier Module	Not required	Not required	On-board	NM-2W	On-board	NM-2W	NM-1E2W, NM-1E1R2W, NM-2E2W	NM-1FE2W, NM-1FE1R2W, NM-2FE2W, NM-2W
Cisco IOS® Software Support	Not supported	All Cisco IOS Software versions	All Cisco IOS Software versions	Cisco IOS Software versions 12.0(7)XK, 12.1(1)T, 12.2, 12.2T	All Cisco IOS Software versions	12.2(8)T1	Not supported	Cisco IOS Software versions 12.0(7)XK, 12.1(1)T, 12.2, 12.2T

Note: The Cisco 1600 series is not capable of supporting the WIC-2A/S due to the lack of Serial Communications Controllers.

The NM-1E2W, NM-1E1R2W, and NM-2E2W network modules do not have enough performance to support the WIC-2A/S.

Known Problems

The WIC-2A/S can be damaged by excessive electrostatic discharge. You can minimize this electrostatic discharge in these ways:

- Use shielded cable end-to-end.
- Use a data surge protector that protects against surges over +/- 18v.
- Use an optical isolator (best protection).

Configuration

The default setting for this module is synchronous. To configure the module for asynchronous communication, issue the **physical-layer async** command. Here is a section of an asynchronous configuration:

Configuration
<pre> maui-soho-01(config)#interface Serial 2/0 maui-soho-01(config-if)#physical-layer async !--- Places the interface in asynchronous mode. !--- Continue to configure this serial interface just as you !--- would configure an Async Interface. maui-soho-01(config-if)#ip add 10.0.0.1 255.255.255.0 maui-soho-01(config-if)#async mode interactive maui-soho-01(config-if)#async default routing </pre>

```
maui-soho-01(config-if)#dialer in-band
maui-soho-01(config-if)#dialer map ip 10.0.0.2 name maui-nas-01 broadcast 5551111

!--- The above commands are part of a broader Dial-on-Demand Routing (DDR)
!--- configuration.
```

To connect a modem to this interface, refer to [Configuring Dialout using a Modem on the AUX Port](#). Even though the document refers to the AUX port, the configuration is very similar.

Issue the **physical-layer sync** command or the **no physical-layer async** command to revert to the default sync mode. To configure the interface for normal serial operation, refer to [Configuring Serial Interfaces](#).

Related Information

- [Multilink PPP Across Two Serial Physical-layer Async Interfaces](#)
- [Online Insertion and Removal of Analog and Digital Modem Network Modules Installed in the Cisco 3660 Router](#)
- [Dial Technology Support Pages](#)
- [Technical Support – Cisco Systems](#)

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