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Cisco 1601−R Router Cable Specifications

Document ID: 46783

Introduction

This document provides the cabling specifications for the Cisco 1601−R router.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on the hardware version:
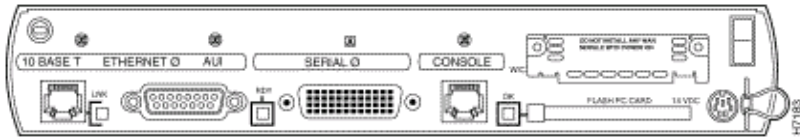
- Cisco 1601−R Router

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, see the Cisco Technical Tips Conventions.

Cabling Specifications

The Cisco 1601−R router has one Ethernet interface, one Serial interface, and one WAN interface card (WIC) slot.

The cabling details for the Cisco 1601–R are as follows:

Console

The console cable is a rolled RJ–45 , the CAB–1600–CON=.

Ethernet

On the 1601–R router, there is one functional port for either the 10Base–T (RJ–45) or AUI (DB–15). The cable details are the CAB–ETH–S–RJ45= Yellow Cable for Ethernet, Straight–through, RJ–45, 6 ft

Synchronous/Asynchronous Serial

On the 1601–R router, there is one DB–60 Synchronous/Asynchronous serial port.

Asynchronous

Asynchronous serial cables are used to support the following WAN protocols:

- Point–to–Point Protocol (PPP)
- Serial Line Internet Protocol (SLIP)

Asynchronous serial interfaces supported on the Cisco 1601–R and WIC–1T card require the following type of cabling:

- EIA/TIA–232

Individual cable options are:

- CAB–232MT: EIA/TIA–232 male DTE interface, 10 ft (3 m)
- CAB–232FC: EIA/TIA–232 female DCE interface, 10 ft (3 m)

Synchronous

Synchronous serial cables are used to support the following WAN services and protocols:

- Frame Relay
- X.25
- Switched Multimegabit Data Service (SMDS)
- Point–to–Point Protocol (PPP)
- High–Level Data Link Control (HDLC)
- Link Access Procedure, Balanced (LAPB)
- IBM Systems Network Architecture (SNA)

Synchronous serial interfaces supported on the Cisco 1601 R and WIC–1T card require the following types of cabling:

- EIA/TIA−232
- V.35
- X.21
- EIA/TIA−449
- EIA−530

Individual cable options consist of the following:

- CAB−232MT: EIA/TIA−232 male DTE interface, 10 ft (3 m)
- CAB−232FC: EIA/TIA−232 female DCE interface, 10 ft (3 m)
- CAB−449MT: EIA/TIA−449 male DTE interface, 10 ft (3 m)
- CAB−449FC: EIA/TIA−449 female DCE interface, 10 ft (3 m)
- CAB−530MT: EIA−530 male DTE interface, 10 ft (3 m)
- CAB−V35MT: V.35 male DTE interface, 10 ft (3 m)
- CAB−V35FC: V.35 female DCE interface, 10 ft (3 m)
- CAB−X21MT: X.21 male DTE interface, 10 ft (3 m)
- CAB−X21FC: X.21 female DCE interface, 10 ft (3 m)

WAN Interface Cards

WAN interface cards supported on the Cisco 1601−R consist of the following:

- WIC−1T: 1−port serial, async and sync (T1/E1)
- WIC−1DSU−56K4: 1 serial with integrated 56/64 Kbps 4−wire DSU/CSU
- WIC−1DSU−T1: 1 serial with integrated T1/Fractional T1 DSU/CSU
- WIC−1B−S/T: 1 ISDN BRI S/T
- WIC−1B−U: 1 ISDN BRI U with integrated NT−1

Front Panel LEDs
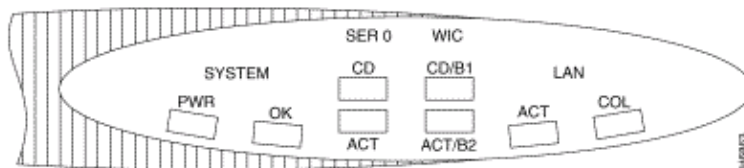
The table below shows the front panel LED functions for the Cisco 1601 and Cisco 1602 routers.

LED	Color	Description
SYSTEM PWR	Green	The router is on, and DC power is being supplied.
SYSTEM OK	Green	The router has successfully booted. Blinks during the boot cycle.
LAN ACT	Green	Data is being sent to or received from the local Ethernet LAN.
LAN COL	Yellow	Flashing indicates packet collisions on the local Ethernet LAN.
SER 0 CD	Green	

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LED	Color	Description
		• The Cisco 1601 has an active connection on the serial port. • The Cisco 1602 has an active connection on the DSU/CSU port.
SER 0 ACT	Green	• The Cisco 1601 serial port is sending or receiving data. • The Cisco 1602 DSU/CSU port is sending or receiving data.
WIC CD/B1	Green	• The serial WAN interface card has an active connection on the serial port. • ~The ISDN WAN interface card has an ISDN connection on B−channel 1.
WIC ACT/B2	Green	• The WAN interface card serial port is sending or receiving data. • The WAN interface card ISDN port has a connection on B−channel 2.

Rear Panel LEDs

The table below explains the rear panel LED functions.

LED	Color	Description
All Models		
LNK (next to ETHERNETØ 10BASET)	Green	Indicates 10BaseT link integrity. This LED is not on when connected to an Ethernet network through the AUI port. The Cisco 1605 has two LNK LEDs, one for each Ethernet 10BaseT port.
OK (next to FLASH PC CARD slot)	Green	The Flash PC card is correctly installed.
Cisco 1601		
RDY	Green	A serial port cable connection has been made to a modem or DSU/CSU.
Cisco 1602		

LOOPBACK	Yellow	The DSU/CSU is in DSU or CSU loopback mode.
ALARM	Yellow	An alarm condition exists on the DSU/CSU port.
CARRIER	Green	Indicates line synchronization or connection on the DSU/CSU port.
Cisco 1603		
OK (next to ISDN BRIØ S/T port)	Green	A physical connection has been established with the ISDN central office switch.
Cisco 1604		
NT1	Green	A physical connection has been established from the router internal NT1 to the ISDN central office switch.
OK (next to ISDN PHONE port)	Green	The device connected to the router ISDN S/T port has established a physical connection with the ISDN central office switch.
Cisco 1605		
LNK (next to ETHERNET1 10BASET)	Green	Indicates 10BaseT link integrity for the Ethernet 1 port.
OK (next to WIC slot)	Green	The WAN interface card is correctly installed in the router.

Related Information

- **Technical Support − Cisco Systems**

Updated: Jun 26, 2005 Document ID: 46783