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Cisco 1603–R Ethernet/ISDN–BRI Modular Router Cable Specifications

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Introduction

This document provides the cabling specifications for the Cisco 1603–R Ethernet/ISDN–BRI Modular 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 1603–R Router

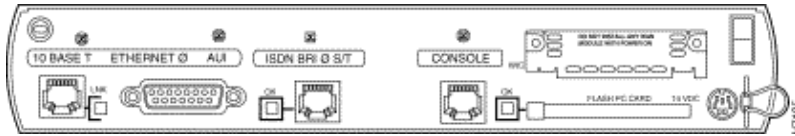
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

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

Cabling Specifications

The Cisco 1603–R router has one Ethernet interface, one Integrated Services Digital Network (ISDN) interface, and one Basic Rate Interface (BRI) S/T WAN interface card (WIC) slot.



The cabling details for the Cisco 1603–R are as follows:

Console

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

Ethernet

On the 1603–R router, there is one functional port for either the 10Base–T (RJ–45) or AUI (DB–15). The cable details are: CAB–ETH–S–RJ45= Yellow Cable for Ethernet, Straight–through, RJ–45, 6 ft.

The AUI adapter cable is a CAB–3CE18=.

ISDN BRI

The ISDN BRI requires an RJ–45 straight through cable. Individual cable options are: CAB–S/T–RJ45= Orange Color Cable for ISDN BRI S/T, RJ–45, 6 ft.

The table below shows the port pinouts for the ISDN BRI S/T (RJ–45).

8–Pin ¹	TE ²	NT ³	Polarity
3	Transmit	Receive	+
4	Receive	Transmit	+
5	Receive	Transmit	–
6	Transmit	Receive	–

¹Pins 1, 2, 7, and 8 are not used.

²TE refers to terminal equipment Layer 1 aspects of TE1, TA, and NT functional groups. This applies to the Cisco 1603 and the ISDN BRI S/T WAN interface card.

³NT refers to network terminating Layer 1 aspects of NT1 and NT2 functional groups. This applies to the Cisco 1604 ISDN S/T port.

ISDN BRI Cable Specifications

The table below provides the cable specifications of the ISDN BRI cable.

Specification	High–capacity Cable	Low–capacity Cable
Resistance (at 96 kHz)	160 ohms/km	160 ohms/km
Capacity (at 1 kHz)	120 nF ¹ /km	30 nF/km

Impedance (96 kHz)	75 ohms	150 ohms ¹
Wire diameter	0.024" (0.6 mm)	0.024" (0.6 mm)
Distance limitation	32.8' (10 m)	32.8' (10 m)

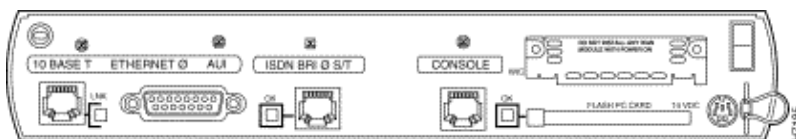
¹ nF = nanoFarad.

WAN Interface Cards

WAN interface cards supported on the Cisco 1603-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-LL: ISDN BRI Leased Line S/T WAN Interface

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.
BRI 0 B1	Green	<ul style="list-style-type: none"> • An ISDN connection on B-channel 1. • Cisco 1604 only ---- If an ISDN device connected to the ISDN S/T port is using B-channel 1, the LED turns on.
BRI 0 B2	Green	<ul style="list-style-type: none"> • An ISDN connection on B-channel 2. • Cisco 1604 only ---- If an ISDN device connected to the ISDN S/T port is using B-channel 2, the LED turns on.

WIC CD	Green	Active connection on the WAN interface card serial port.
WIC ACT	Green	Data is being sent over the WAN interface card serial port.

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](#)

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