



Cable and Port Pinouts

This appendix provides cabling and port pinout information for the SN 5420 storage router. This appendix includes the following sections:

- [Gigabit Ethernet Port, page B-2](#)
- [Fibre Channel Port, page B-2](#)
- [10/100 Ethernet Management and HA Ports, page B-3](#)
- [RS-232 Management Port, page B-5](#)

Gigabit Ethernet Port

Table B-1 describes cabling specifications for the Gigabit Ethernet port. The minimum cable distance is 6.5 feet (2 meters).

Table B-1 Gigabit Ethernet Port Cabling Specifications

Type	Wavelength (nm ¹)	Connector Type	Fiber Type	Core Size (micron)	Modal Bandwidth (MHz–km ²)	Maximum Cable Distance
SX ³	850	Duplex SC	MMF ⁴	62.5	160	722 ft (220 m)
				62.5	200	902 ft (275 m)
				50.0	400	1640 ft (500 m)
				50.0	500	1804 ft (550 m)

1. nm = nanometers
2. MHz–km = modal bandwidth in MHz transmitted over a distance of 1 km
3. SX = short wavelength
4. MMF = multimode fiber

Fibre Channel Port

Table B-2 describes cabling specifications for the Fibre Channel port. The minimum cable distance is 6.5 feet (2 meters).

Table B-2 Fibre Channel Port Cabling Specifications

Type	Wavelength (nm ¹)	Connector Type	Fiber Type	Core Size (micron)	Modal Bandwidth (MHz–km ²)	Maximum Cable Distance
SN ³	850	Duplex SC	MMF ⁴	62.5	160	984 ft (300 m)
				50.0	400	1640 ft (500 m)

1. nm = nanometers
2. MHz–km = modal bandwidth in MHz transmitted over a distance of 1 km
3. SN = short wave laser without Open Fibre Control
4. MMF = multimode fiber

10/100 Ethernet Management and HA Ports

Use modular, RJ-45, straight-through UTP cables to connect the 10/100 Fast Ethernet ports to end systems. Use modular, RJ-45 cross-connect cables to connect to external switches and routers. [Figure B-1](#) shows straight-through cables and [Figure B-2](#) shows cross-connect cables.

Figure B-1 *Straight-Through Cables*

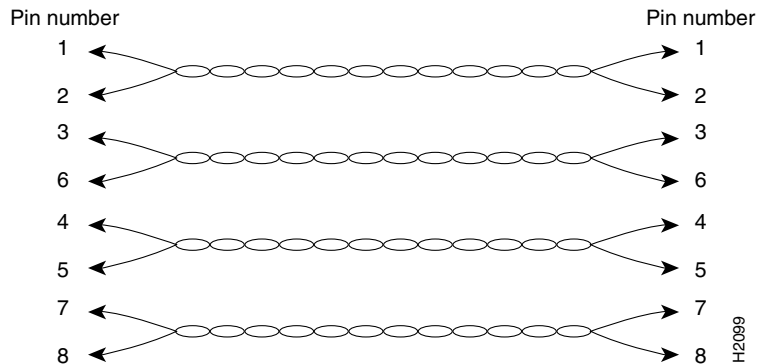
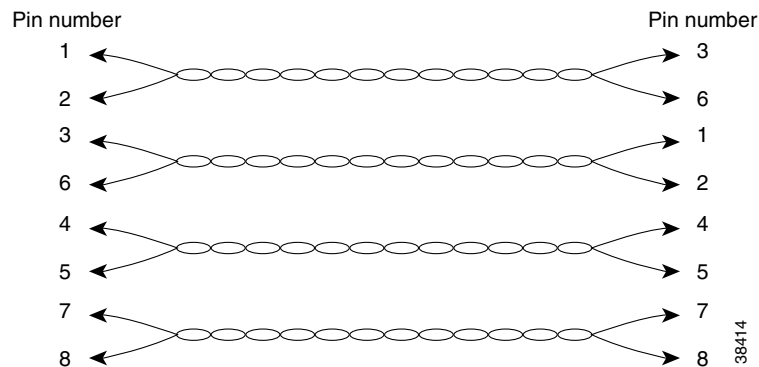


Figure B-2 *Cross-Connect Cables*



The 10/100 Fast Ethernet ports support RJ-45 connectors. [Table B-3](#) lists the signals for RJ-45 connector pinouts.

Table B-3 Fast Ethernet Port Pinouts

Pin	Signal	Description
1	TxD+	No connection
2	TxD-	No connection
3	RxD+	Receive data +
4	NC	No connection
5	NC	No connection
6	RxD-	Receive data -
7	NC	Transmit data +
8	NC	Transmit data -

RS-232 Management Port

The RS-232 management port is a male DB-9 receptacle. Data Terminal Ready (DTR) and Data Set Ready (DSR) handshake signals are supported by this port. [Table B-4](#) lists the RS-232 management port pinouts.

Table B-4 Console Port Pinouts

Pin	Signal	Direction	Description
1	CD	Input	Carrier detect
2	RxD	Input	Receive data
3	TxD	Output	Transmit data
4	DTR	Output	Data terminal ready
5	GND	—	System ground
6	DSR	Input	Data set ready
7	RTS	Output	Request to send
8	CTS	Input	Clear to send
9	RI	Input	Ring indicator

