BANDIT II Hardware Specifications

This appendix lists the specifications for the BANDIT II™. See the following:

◆ Section A.1, *Pin Configurations*

◆ Section A.2, *Port Speeds*

◆ Section A.3, *Chassis Specifications*

◆ Section A.4, *Standards Compliance*

A.1   Pin Configurations

See the following for information about pin configurations:

◆ Section A.1.1, *DB9 Supervisory Port*

◆ Section A.1.2, *RJ45 10-Base-T/100-Base-T Ethernet Port*

◆ Section A.1.3, *DB25 Port*

A.1.1   DB9 Supervisory Port

Figure A-1 identifies the pin locations for a female DB9 connector. Table A-1 lists the standard DB9 pin configuration.
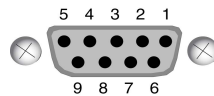

Figure A-1. Pin Locations for Female DB9 Port

Table A-1. DB9 Serial Port Pin Configuration (Sheet 1 of 2)

Pin Number[1]	EIA[2] Signal (only DCE)	Description
1	DCD	Data carrier detect
2	RXD	Received data
3	TXD	Transmitted data
4	DTR	Data terminal ready

For information on trademarks, safety, limitations
of liability, and similar topics, see Notices.

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Table A-1. DB9 Serial Port Pin Configuration (Sheet 2 of 2)

| Pin Number[1]	EIA[2] Signal (only DCE)	Description
5	GND	Signal ground
7	RTS	Request to send
8	CTS	Clear to send

1. Unused pins are not listed.
2. EIA = Electronic Industries Alliance

A.1.2   RJ45 10-Base-T/100-Base-T Ethernet Port

Figure A-2 shows the pin locations on an RJ45 Ethernet port. Table A-2 lists the pin configuration for the BANDIT II's 10/100-Base-T Ethernet ports.

Note: Note that the BANDIT II senses the pin configuration at the remote end of the connection and sets its own pin configuration accordingly.
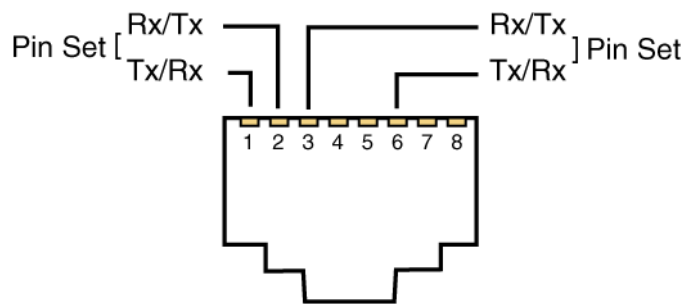
Each pin set autosenses and adjusts to signals from the device at the remote end of the connection.

Figure A-2. Pin Locations for Female RJ45 Ethernet Connector

Table A-2. 10-Base-T/100-Base-T Ethernet Port Pin Configuration in BANDIT II

Pin Set[1]	Description[2]
1 and 2	Tx or Rx
3 and 6	Rx or Tx

1. Unused pins are not listed.
2. The BANDIT II Ethernet connectors are autosensing and will adjust to the signals from the device at the remote end of the connection.

A.1.3   DB25 Port

Figure A-3 identifies the pin locations for a female DB25 connector.

Note: On the BANDIT II, you use the ELIOS software to set the DB25 serial port as DCE or DTE.
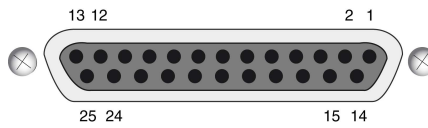
Figure A-3. Pin Locations for Female DB25 Port

Table A-3 lists the pin configuration for the BANDIT II's standard DB25 port.

Table A-3. BANDIT II DB25 Serial Port Pin Configuration

Pin Number[1]	EIA[2] Signal (DCE or DTE[3])	Description
Pin 1		Shield (Earth Ground)
Pin 2	TXD	Transmitted data
Pin 3	RXD	Received data
Pin 4	RTS	Request to send
Pin 5	CTS	Clear to send
Pin 6	DSR	Data set ready
Pin 7	GND	Signal ground
Pin 8	DCD	Data carrier detect
Pin 15	TXC	Transmit clock
Pin 17	RXC	Receive clock
Pin 20	DTR	Data terminal ready
Pin 24	SCTE	External clock

1. Unused pins are not listed.
2. EIA = Electronic Industries Alliance
3. You can use the BANDIT II's ELIOS software to select DCE or DTE for this port.

A.2 Port Speeds

For all serial ports, more than 230 kbps is not supported. The serial ports can support async speed down to 50 bps.

For all ports, the sync speed range is 2400 bps to 256 kbps.

Table A-4 and Table A-5 provide details for port speeds.

Table A-4. Port Speeds, Synchronous (Sheet 1 of 2)

Synchronous (Bits/Second)
256,000
192,000
128,000
96,000
64,000

Table A-4. Port Speeds, Synchronous *(Sheet 2 of 2)*

Synchronous (Bits/Second)
56,000
48,000
38,400
19,200
9,600
4,800
2,400

Table A-5. Asynchronous Port Speeds for All Serial Ports on the BANDIT II

Asynchronous (Bits/Second)
230,400
115,200
57,600
48,000
38,400
19,200
9,600
4,800
2,400
1,200
600
300
200
110
50

A.3   Chassis Specifications

The following sections cover the physical, power, and environmental specifications for the BANDIT II chassis. See the following:

- Section A.3.1, *Physical Specifications*
- Section A.3.2, *Power*
- Section A.3.3, *Environmental Specifications*

A.3.1   Physical Specifications

The products in the BANDIT family are designed for quick and easy integration with other equipment in a typical networking environment. Table A-6 provides the physical specifications of the BANDIT II.

Table A-6. Physical Specifications, BANDIT II Chassis

Item	Measurement
Height[1]	1.5 in. (3.81 cm)
Width	6.0 in. (15.24 cm)
Depth	4.4 in. (11.18 cm)
Weight	Less than 1 lb. (Less than 0.45 kg)
Installation Type	Desktop

1. When the height of the chassis feet is included, the chassis stands 1.53 inches (3.88 cm) high.

A.3.2   Power

The BANDIT II chassis accepts DC input from a DC power source or from an external power supply that uses AC input.

The DC power source can provide 12, 24, or 48 volts DC.

The AC power supply accepts input power at 110 to 220 volts AC, 50 to 60 Hz, auto-ranging, and delivers 5 volts DC at 2 amps output to the BANDIT II chassis.

A.3.3   Environmental Specifications

Table A-7 provides the environmental specifications for the BANDIT II.

Table A-7. BANDIT II Environmental Specifications

Measurement	Specification
Temperature	Non-Operating (Storage) Temperature, all chassis: -40°C to 85°C (-40°F to 185°F) Operating Temperatures:[1] Commercial-grade AC chassis, with or without wireless card: 0° C to 50° C Industrial-grade AC chassis, with CDMA or GSM wireless card: -20° C to 55° C Industrial-grade AC chassis, with EVDO or HSPA wireless card: -20° C to 65° C Industrial-grade AC chassis, without wireless card: -30° C to 70° C All DC chassis,[2] with CDMA or GSM wireless card: -20° C to 55° C All DC chassis,[2] with EVDO or HSPA wireless card: -20° C to 65° C All DC chassis,[2] without wireless card: -40° C to 85° C
Humidity	10% to 85% non-condensing
Altitude	Up to 10,000 ft. (Up to 3,048 m)

1. The listed operating temperatures take into account the type of wireless card in the chassis. EVDO and HSPA wireless cards operate well between -20° C and 65° C; CDMA and GSM wireless cards operate well between -20° C and 55° C.
2. BANDIT II chassis that use 12, 24, or 48 V DC power sources are industrial grade.

A.4   Standards Compliance

The BANDIT II complies with the agency standards listed in Table A-8.

Table A-8. BANDIT II Standards Compliance

Compliance	Agency
Environmental	ROHS-compliant
Electromagnetic Compatibility (EMC)	FCC Part 15 EN 55022/CISPR 22 EN 55024/CISPR 24
Product Safety	UL/CSA 60950-1 CAN/CSA-C22.2 No. 60950-1-03 EN 60950-1