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# VSR-1200 and RDU Hardware Specifications

This appendix lists the specifications for the VSR-1200 and the RDU. See the following:

- ◆ [Section A.1, Pin Configurations](#)
- ◆ [Section A.2, Port Speeds](#)
- ◆ [Section A.3, Chassis Specifications](#)
- ◆ [Section A.4, RDU Specifications](#)
- ◆ [Section A.5, Standards Compliance](#)

## A.1 Pin Configurations

### A.1.1 CSU/DSU RJ48S Port

**Note:** The connection must use a shielded twisted-pair cable. Recommended wire gauge and resistance are 22 AWG and 100 ohm.

*Table A-1. CSU/DSU RJ48S Pinout*

Pin <sup>1</sup>	Function
1	Tx Ring (to Network)
2	Tx Tip (to Network)
7	Rx Tip (from Network)
8	Rx Ring (from Network)

1. Unused pins are not listed.

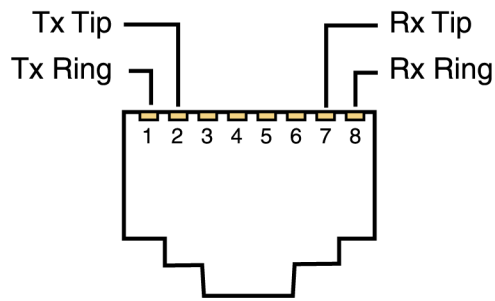


Figure A-1. CSU/DSU RJ48S Pinout

### A.1.2 T1/E1 RJ48C Port

**Note:** The connection must use a shielded twisted-pair cable. Recommended wire gauge and resistance are 22 AWG and 100 ohm.

Table A-2. T1/E1 RJ48C Pinout

Pin <sup>1</sup>	Function
1	Rx Tip
2	Rx Ring
4	Tx Tip
5	Tx Ring

1. Unused pins are not listed.

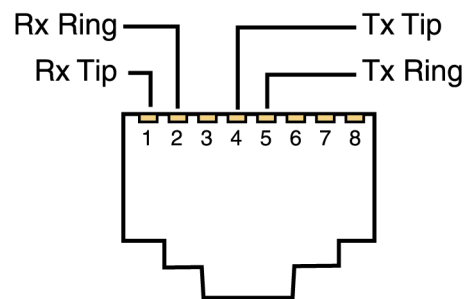


Figure A-2. T1/E1 RJ48C Pinout

### A.1.3 DB25 Port

Table A-3. DB25 Serial Port Pin Configuration (Sheet 1 of 2)

Pin Number <sup>1</sup>	Description
Pin 1	Shield
Pin 2	TXD
Pin 3	RXD

**Table A-3. DB25 Serial Port Pin Configuration (Sheet 2 of 2)**

Pin Number <sup>1</sup>	Description
Pin 4	RTS
Pin 5	CTS
Pin 6	DSR
Pin 7	GND
Pin 8	DCD
Pin 15	TXC
Pin 17	RXC
Pin 20	DTR
Pin 24	SCTE

1. Unused pins are not listed.

### A.1.4 Cables for the RJ45 Port

**Table A-4. RJ45-to-DB9 Terminal Adapter Cable**

8-Pin Mod. Pin	Function	Out	In	DB9 Pin
1	Unused			9
2	DCD	→		1
3	DTR		←	4
4	Common Ground			5
5	Receive Data	→		2
6	Transmit Data		←	3
7	CTS	→		8
8	RTS		←	7

**Table A-5. RJ45-to-DB25 Terminal Adapter Cable (Sheet 1 of 2)**

8-Pin Mod. Pin	Function	Out	In	DB25 Pin
1	Unused			22
2	DCD	→		8
3	DTR		←	20
4	Common Ground			7
5	Receive Data	→		3

**Table A-5. RJ45-to-DB25 Terminal Adapter Cable (Sheet 2 of 2)**

8-Pin Mod. Pin	Function	Out	In	DB25 Pin
6	Transmit Data		←	2
7	CTS	→		5
8	RTS		←	4

**Table A-6. RJ45-to-DB25 Modem Adapter Cable**

8-Pin Mod. Pin	Port Function	Out	In	DB25 Pin	Modem Function
1	Unused			22	Not Connected
2	DCD	→		8	Not Connected
3	DTR		←	20/6	DTR/DSR
4	Common Ground			7	Common Ground
5	Receive Data	→		2	Transmit Data
6	Transmit Data		←	3	Receive Data
7	CTS	→		4	RTS
8	RTS		←	5	CTS

### A.1.5 Ethernet Port

**Table A-7. 10/100-Base-T Ethernet Port Pinout, VSR-1200**

Pin Set <sup>1</sup>	Description <sup>2</sup>
1 and 2	Tx or Rx
3 and 6	Rx or Tx

1. Unused pins are not listed.

2. The VSR-1200 Ethernet connectors are autosensing and will adjust to the signals from the connected device.

**Table A-8. 100/1000-Base-T (1 Gigabyte) Ethernet Port Pinout, VSR-1200 (Sheet 1 of 2)**

Group	Pin Set <sup>1</sup>	Description <sup>2</sup>
A	1 and 2	Tx pair 1 or Rx pair 1
	3 and 6	Tx pair 2 or Rx pair 2

**Table A-8. 100/1000-Base-T (1 Gigabyte) Ethernet Port Pinout, VSR-1200 (Sheet 2 of 2)**

Group	Pin Set <sup>1</sup>	Description <sup>2</sup>
B	4 and 5	Rx pair 1 or Tx pair 1
	7 and 8	Rx pair 2 or Tx pair 2

1. Unused pins are not listed.

2. The VSR-1200 Ethernet connectors are autosensing, and will adjust to the signals from pins in the same group on the connected device.

## A.2 Port Speeds

**Table A-9. Port Speeds, Synchronous**

Synchronous (Bits/Second)
2,048,000
1,536,000
1,024,000
768,000
512,000
384,000
256,000
192,000
128,000
96,000
64,000
56,000
48,000
38,400
19,200
9,600
4,800
2,400

**Table A-10. Port Speeds, Asynchronous (Sheet 1 of 2)**

Asynchronous (Bits/Second)
230,400
115,200
57,600

*Table A-10. Port Speeds, Asynchronous (Sheet 2 of 2)*

Asynchronous (Bits/Second)
48,000
3,8400
19,200
9,600
4,800
2,400
1,200

## A.3 Chassis Specifications

The following sections cover the physical, power, and environmental specifications for the VSR-1200.

**Note:** For information about the Remote Data Unit, see [Section A.4, RDU 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-11](#) provides the physical specifications of the VSR-1200.

*Table A-11. Physical Specifications, VSR-1200*

Measurement	Value
Height	1U (1.75 in.; 4.45 cm)
Width	19 in. (48.26 cm)
Depth	8.3 in. (21.08 cm)
Weight	4 lb. (1.81 kg)
Installation Type	Rackmount

### A.3.2 Power

The VSR-1200 uses two internal loadsharing power supplies. The RDU uses one internal power supply.

Each AC power supply, auto-ranging, with a locking connector, accepts input power of 100 to 240 VAC, 50–60 Hz. All AC power supplies for BANDIT devices deliver 5 volts DC to the chassis.

### A.3.3 Environmental Specifications

Table A-12 provides the environmental specifications for the VSR-1200.

For information about the Remote Data Unit, see [Section A.4, RDU Specifications](#).

*Table A-12. Environmental Specifications*

Item	Specification
Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 85% non-condensing
Altitude	Up to 10,000 ft. (3,048 m)

## A.4 RDU Specifications

The following sections cover the physical, power, and environmental specifications for the Remote Data Unit.

### A.4.1 Physical Specifications

The RDU is designed for quick and easy integration with the BANDIT Plus or the VSR-1200 and other equipment in a typical networking environment. [Table A-13](#) provides the physical specifications for the RDU.

*Table A-13. Physical Specifications, Remote Data Unit*

Measurement	VSR-1200
Height	1U (1.75 in.; 4.45 cm)
Width	19 in. (48.26 cm)
Depth	8.3 in. (21.08 cm)
Weight	4 lb. (1.81 kg)
Installation Type	Rackmount

### A.4.2 Power

The RDU's power supply is 100 to 240 VAC, 50–60 Hz, auto-ranging, with a locking connector. The RDU's power consumption is 10 watts AC; its power supply delivers 3.3 volts DC to the RDU.

### A.4.3 Environmental Specifications

[Table A-14](#) provides the environmental specifications for the RDU.

*Table A-14. Environmental Specifications*

Item	Specification
Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 85% non-condensing
Altitude	Up to 10,000 ft. (3,048 m)

## A.5 Standards Compliance

All BANDIT products comply with the agency standards listed in [Table A-15](#).

*Table A-15. Standards Compliance*

Compliance	Agency
Safety	ANSI/UL Std. No. 60950, 3rd Edition (U.S. Safety) CAN/CSA-C22.2 No. 60950 (Canadian Safety) EN 60950, European Safety (CE Mark)
Emissions	FCC Part 15, Sub-Part B, Class A (U.S.) EN 55022: 1998 (Europe)
Immunity	EN 55024: 1998 (Europe)