

OptoHub Quick Reference

Power (250mA max)
 CABLING: 1 twisted pair, minimum 18 AWG
 Input Voltage Return (-) = COMMON
 Chassis Ground = CHASSIS GROUND
 Positive 12 Volts ±15% DC (+) = +12V

Port 1 RS-485 Sub-Panel Bus
 (Fig. 2)

Port 2 RS-485 Sub-Panel Bus
 (Fig. 2)

Port 3 RS-485 Sub-Panel Bus
 (Fig. 2)

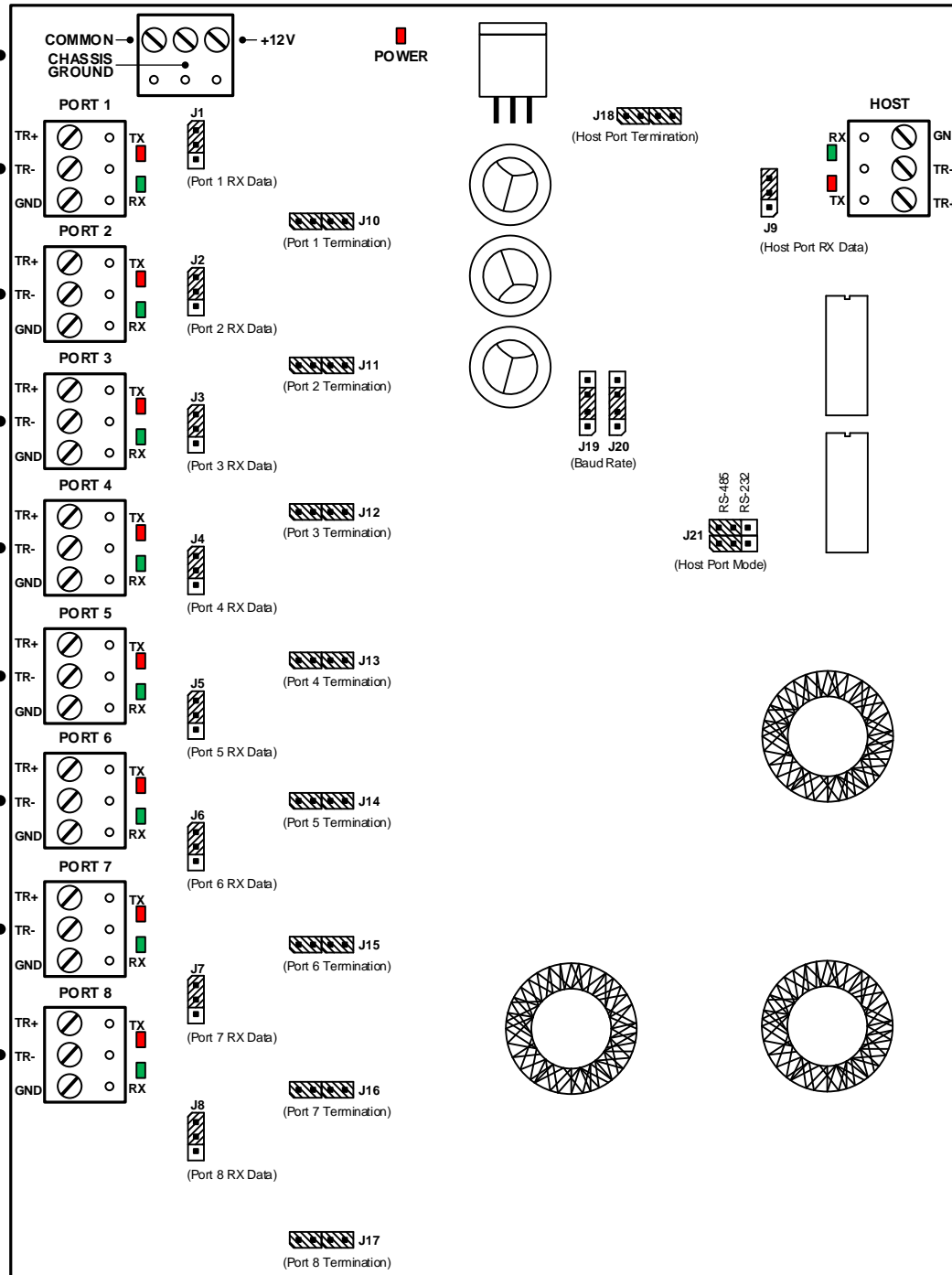
Port 4 RS-485 Sub-Panel Bus
 (Fig. 2)

Port 5 RS-485 Sub-Panel Bus
 (Fig. 2)

Port 6 RS-485 Sub-Panel Bus
 (Fig. 2)

Port 7 RS-485 Sub-Panel Bus
 (Fig. 2)

Port 8 RS-485 Sub-Panel Bus
 (Fig. 2)



Host Port RS-485 SCP Bus
 (Figure 1)

Jumpers	Setting	Configuration
J1 – J9 (RX Data)	Top	Port RX is enabled (default)
	Bottom	Port RX is disabled
J10 – J18 (Port Termination)	On	RS-485 Termination is on
	Off	RS-485 Termination is off
J19 – J20 (Baud Rate)	Top	9,600 Kbps
	Center	115,200 Kbps* (recommended)
	Bottom	38,400 Kbps
	Off	230,400 Kbps
J21 (Host Port Mode)	Right	Host port is RS-232**
	Left	Host port is RS-485

* It is recommended to use 115,200 Kbps baud rate (J19-J20) even when communicating to SIO devices at 38,400 Kbps.

**J18 jumpers must be off for RS-232 mode.

Normal LED Function	
• POWER (board is powered on):	ON
• Host TX (SCP transmit communication):	Rapid pulse
• Host RX (SCP receive communication):	Rapid pulse
• Port 1-8 TX (SIO transmit communication):	Rapid pulse
• Port 1-8 RX (SIO receive communication):	Rapid pulse

Specifications
• Dimension 6" (152mm) W x 8" (203mm) L x 1" (25mm) H
• Storage Temperature: -55°C to +85°C
• Humidity: 0% to 95% RHNC
• Weight: 10 oz. (290 g) nominal

Figure 1: Host Port RS-485 SCP Bus Wiring and Termination

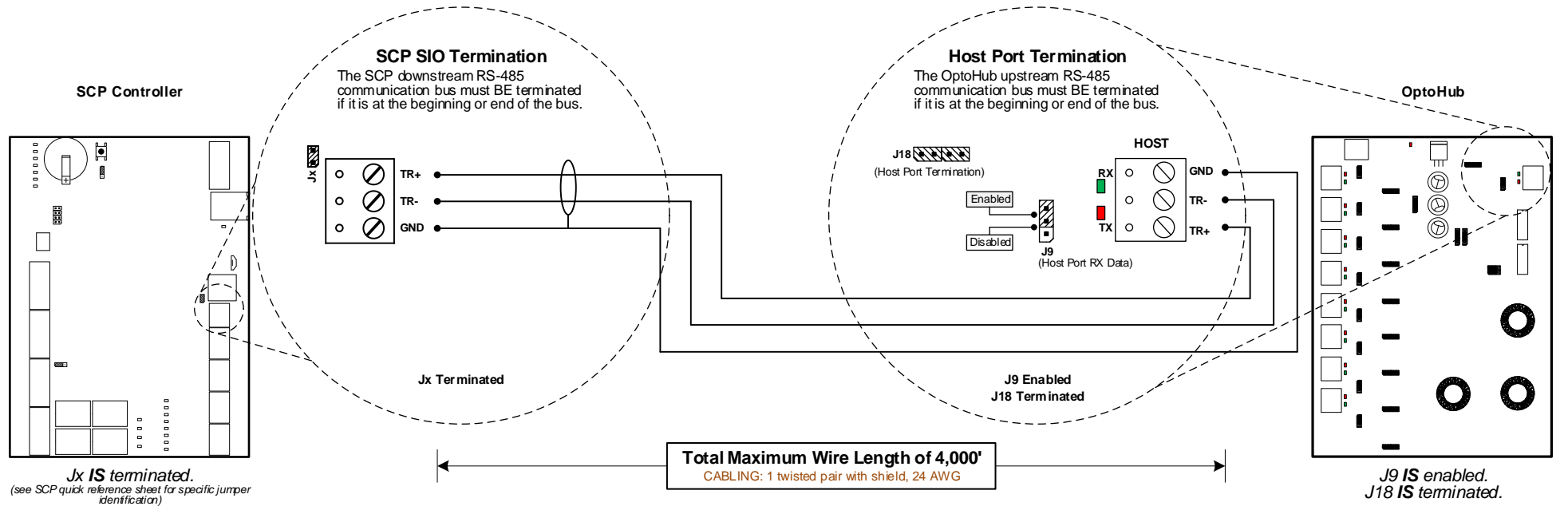


Figure 2: Port x RS-485 Sub-Panel Bus Wiring and Termination

