



SitePORTAL Lite TA-SPL32-R48

The TA-SPL32-R48 is a 19 inch, 2 RU rack mountable sitePORTAL Lite (sPL). It comes with 8 analog inputs, 8 temperature inputs (sensors sold separately), 32 digital inputs (24 Diode Isolated, 8 Opto-Isolated), 8 Form-C relay outputs, Ethernet interface, and 2 peripheral ports. This guide will take the user through a quick step by step process of installing and configuring the TA-SPL32-R48.

Shown below is the front panel which consists of:

1. Illuminated alarm status of each input
2. System status indication
3. USB Local connection

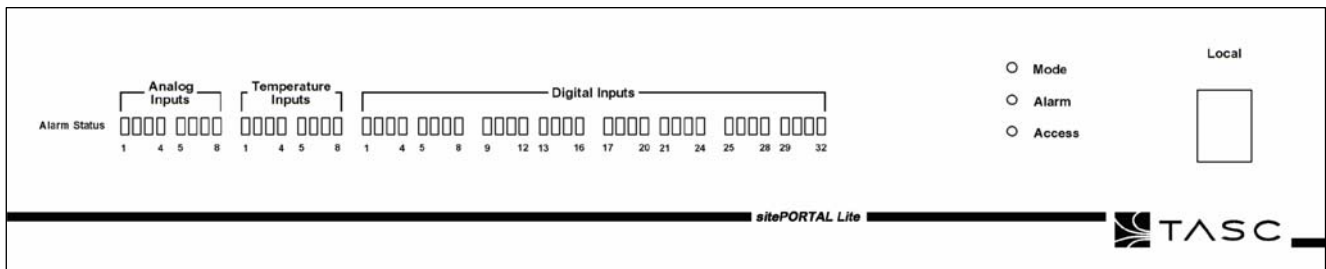


Figure 1 – TA-SPL32-R48 Front Panel

Shown below is the back panel which consists of:

1. Two 50 pin AMP/Champ Input/Output Connectors (J1 & J2)
2. Two DB9 Peripheral Connectors (COM1 & COM2)
3. 36-72 VDC Isolated Power Connector
4. N-Type RF Antenna Modem Connector
5. Earth Ground Lug

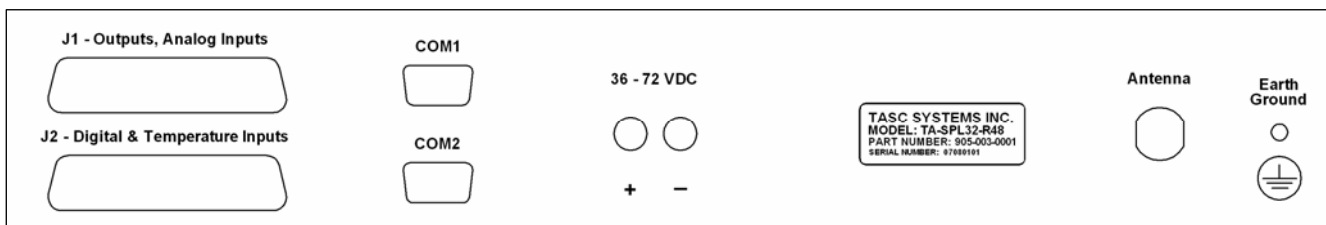


Figure 2 – TA-SPL32-R48 Back Panel

Step-By-Step Instructions

1. Attach an antenna to the antenna connector as shown in figure 2.
2. Apply 36-72 VDC to the power connector. When power is applied, the Mode and Alarm indicators on the front will flash momentarily after which the Mode indicator will flash slowly and continuously.
3. Confirm SPCU (CD provided) is installed on the computer and then use the provided USB cable to connect the computer to the sitePORTAL Lite. The computer should find the new serial USB device once the cable is connected.
4. The USB serial device will have a new com port assigned to it that will appear in the device manager. To determine the new USB serial port number, from the Windows Start menu select 'Settings->Control Panel'. Select 'System' to view the system properties and from the system properties select the Hardware tab. Select Device Manager and expand the ports node to view the port number assigned to the USB Serial Port (see figure 3). In SPCU, select 'Preferences->Local Connection' and change the communication port to the USB serial port number obtained from device manager. Click 'OK'.

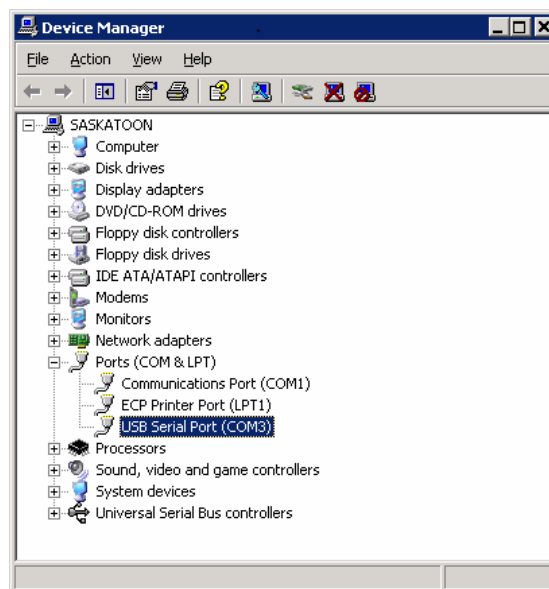


Figure 3 – USB Serial Port Number

5. In SPCU, select 'Connect->Local Connection'. SPCU will download the configuration settings from the sPL and start flashing 'CONNECTED: LOCAL' at the bottom of the window. You are now 'locally' connected to the sPL.



6. Select 'Online Functions->View->Current System Status' to obtain a summary of sPL configuration and alarms (see figure 4). You can select any of the options on the right hand side of the current status window to obtain an in depth summary of each selection.

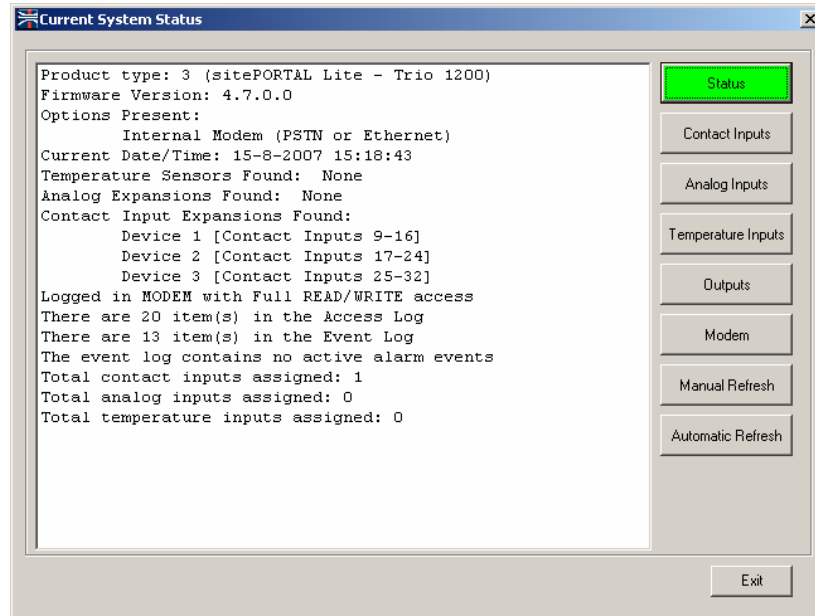


Figure 4 – Configuration and Alarms Summary

7. Select 'Configuration->Site Information' and give the unit a Site Name, Site IP Address, Site IP Port, NOCC IP Address, and NOCC IP Port. The site name must be the same name as the site name entered in the siteWRX server at the NOCC. The site IP port and NOCC IP Port should be 3011 and 3001 respectively. The site and NOCC IP addresses should be the modem IP address and the siteWRX server address. See figure 5 below for an example.

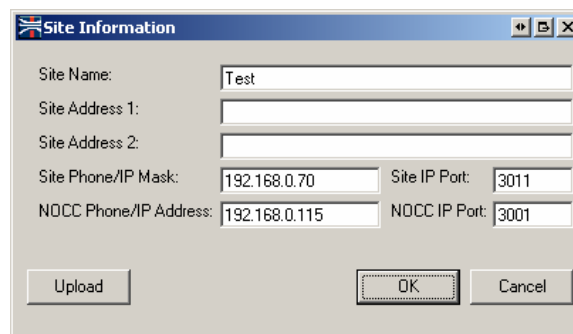


Figure 5 – Site Information

8. Select 'Connect->Terminate Connection' to disconnect from the sPL.



Remote Connection

In order to connect remotely to the sPL you must have a modem connected to your computer. Select 'Connect->Remote Connection' and in the 'Instant Connect' box enter the IP address and port of the sPL (see figure 6). The format is xxx.xxx.xxx.xxx:3011. Select 'Dial/Connect' and enter the default password of 'TASC' when prompted to. Once again the sPL configuration will be downloaded to SPCU and full control will be given to the user.

The screenshot shows the 'Remote Connection Dialer' window. It features a table of site configurations, a 'Phone list file' field, an 'Instant Connect' checkbox with an IP address field, and various preference settings for modem communication and session management.

Site Name	Type	Number/Address
sitePORTAL #1	PSTN	555 1111
sitePORTAL #2	PSTN	555 2222
sitePORTAL #3	PSTN	555 1111
sitePORTAL #4	PSTN	555 2222
sitePORTAL #5	PSTN	555 1111
sitePORTAL #6	PSTN	555 2222
sitePORTAL #7	PSTN	555 1111
sitePORTAL #8	PSTN	555 2222
sitePORTAL #IP1	TCP/IP	192.168.0.178:14001

Phone list file: C:\Documents and Settings\All Users\Documents\sitePORTAL.TLF

Instant Connect: [192.168.0.70:3011]

Preferences:

Modem init string: []

Communication port: COM3 Speed: 19200

Prefix to Dialed Number: []

Enable Prefix

Session Preferences:

Force download

Connect Time: 50 Secs

Auto logoff: 10 Mins

Virtual Port To Use For Passthrough: 8

Dynamic Lookup Server: []

Buttons: New, Dial/Connect, Cancel, OK

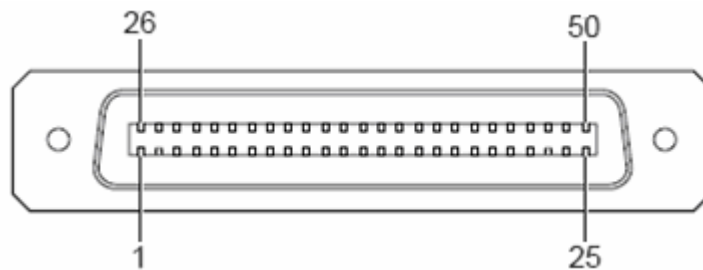
Figure 6 – Remote Connection Dialer



REFERENCE

J1 – Outputs, Analog Inputs

J1 is a female RJ-21 (Champ) connector that interfaces the relay Form-C outputs and the Analog Inputs. The analog inputs can take only a positive voltage that must be referenced to the GND provided. The relay outputs are rated for 30V DC at 1A or 125V AC at 0.3A. For interfacing instructions refer to document 050-015-0012R07 - sPL User Manual pages 10-13.

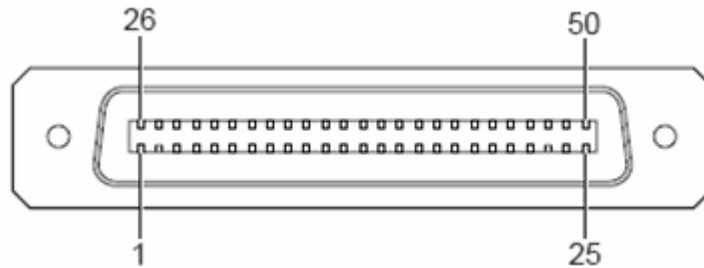


Pin	Description	Pin	Description
1	Output 1 NO	26	Output 1 NC
2	Output 1 C	27	Output 2 NO
3	Output 2 NC	28	Output 2 C
4	Output 3 NO	29	Output 3 NC
5	Output 3 C	30	Output 4 NO
6	Output 4 NC	31	Output 4 C
7	Output 5 NO	32	Output 5 NC
8	Output 5 C	33	Output 6 NO
9	Output 6 NC	34	Output 6 C
10	Output 7 NO	35	Output 7 NC
11	Output 7 C	36	Output 8 NO
12	Output 8 NC	37	Output 8 C
13	AL	38	GND
14	Analog Input 8	39	Analog Input 7
15	Analog Input 6	40	Analog Input 5
16	Analog Input 4	41	Analog Input 3
17	Analog Input 2	42	Analog Input 1
18	Not Used	43	Not Used
19	Not Used	44	Not Used
20	Not Used	45	Not Used
21	Not Used	46	Not Used
22	Not Used	47	Not Used
23	Not Used	48	Not Used
24	Not Used	49	Not Used
25	Not Used	50	Not Used



J2 – Digital & Temperature Inputs

J2 is a female RJ-21 (Champ) connector that interfaces the digital and temperature inputs. The temperature sensors have four connections that can be brought out to a length of 12 feet max. Digital Inputs 1-24 are diode isolated and referenced to the GND provided while inputs 25-32 are opto-isolated. For interfacing instructions refer to document 050-015-0012R07 - sPL User Manual pages 9 & 15

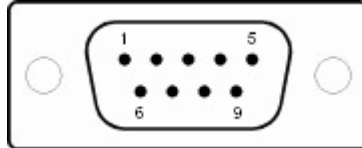


Pin	Description	Pin	Description
1	Temp Sensor - 12 VDC	26	Temp Sensor - GND
2	Temp Sensor - SDA	27	Temp Sensor - SCL
3	GND	28	GND
4	Digital Input 8	29	Digital Input 7
5	Digital Input 6	30	Digital Input 5
6	Digital Input 4	31	Digital Input 3
7	Digital Input 2	32	Digital Input 1
8	GND	33	GND
9	Digital Input 16	34	Digital Input 15
10	Digital Input 14	35	Digital Input 13
11	Digital Input 12	36	Digital Input 11
12	Digital Input 10	37	Digital Input 9
13	GND	38	GND
14	Digital Input 24	39	Digital Input 23
15	Digital Input 22	40	Digital Input 21
16	Digital Input 20	41	Digital Input 19
17	Digital Input 18	42	Digital Input 17
18	Digital Input 25-A	43	Digital Input 25-B
19	Digital Input 26-A	44	Digital Input 26-B
20	Digital Input 27-A	45	Digital Input 27-B
21	Digital Input 28-A	46	Digital Input 28-B
22	Digital Input 29-A	47	Digital Input 29-B
23	Digital Input 30-A	48	Digital Input 30-B
24	Digital Input 31-A	49	Digital Input 31-B
25	Digital Input 32-A	50	Digital Input 32-B



COM1/COM2 Peripheral Connectors

COM1 and COM2 are two Male DB9 connectors that act as a DTE device. They can be connected to the peripheral equipment with a standard DB9 cable for Pass-through/Switch-through functionality.



COM1/COM2 Peripheral Ports		
Pin	Legend	Function
1	DCD	IN from modem or peripheral (DCE)
2	RXD	IN from modem or peripheral (DCE)
3	TXD	OUT from sitePORTAL Lite (DTE)
4	DTR	OUT from sitePORTAL Lite (DTE)
5	GND	
6	DSR	IN from modem or peripheral (DCE)
7	RTS	OUT from sitePORTAL Lite (DTE)
8	CTS	IN from modem or peripheral (DCE)
9	RI	IN from modem or peripheral (DCE)

Power Connector

The input voltage to the sPL is isolated from GND providing the ability to have a positive or negative input. The voltage input range is 36-72 VDC (48 VDC nom @ 0.8A max).

Antenna

The antenna connector is a 50 Ohm RF N-type connector provided for a wireless modem (mounted internally). Connect the appropriate antenna to this connector.

Earth Ground

An earth ground connection is provided.