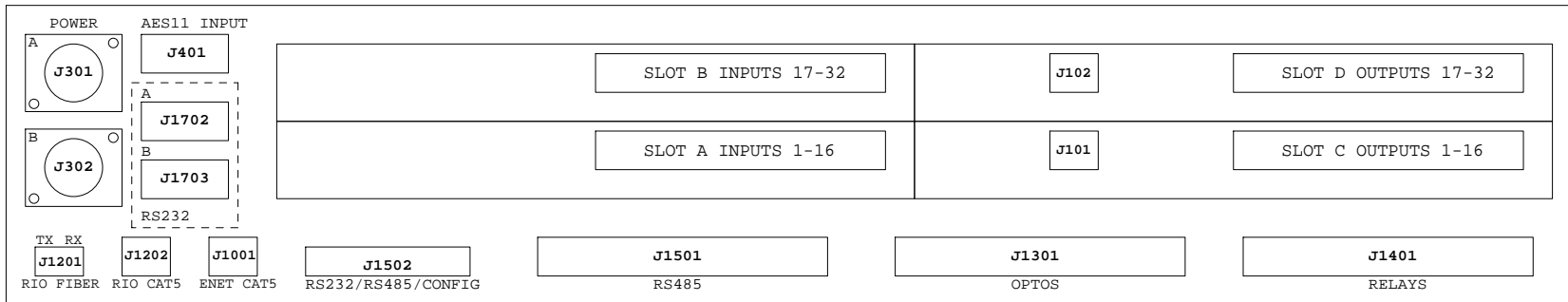


# SAS RIO CHASSIS REAR PANEL (External View\*)



## J301 & J302

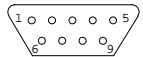
Function: 24VDC/3.0A POWER INPUT  
Connector Type: Neutrik P/N NL4MP-UC (Female)



Mating Connector: Neutrik P/N NL4FX (Male)

## J401

Function: AES11 Input  
Connector Type: DSUB9 (Male)

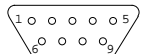


PIN 1 - GROUND  
PIN 2 - AES11+  
PIN 3 - AES11-

Mating Connector: DSUB9 (Female)

## J1702

Function: RS232 PORT 1 (USI)  
Connector Type: DSUB9 (Male)

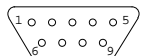


PIN 2 - RS232 PORT 1 TX  
PIN 3 - RS232 PORT 1 RX  
PIN 5 - GROUND

Mating Connector: DSUB9 (Female)

## J1703

Function: RS232 PORT 2 (USI)  
Connector Type: DSUB9 (Male)



PIN 2 - RS232 PORT 2 TX  
PIN 3 - RS232 PORT 2 RX  
PIN 5 - GROUND

Mating Connector: DSUB9 (Female)

## SLOT A INPUTS 1-16 SLOT B INPUTS 17-32

For Analog Input (RAI-8) Card, use SAS Drawing 16BW1.  
For AES Input (RDI-8) Card, use SAS Drawing 16BW1 (SIG 1-8 ONLY).

## SLOT C OUTPUTS 1-16 SLOT D OUTPUTS 17-32

For Analog Output (RAO-8 or RAD-84) Card, use SAS Drawing 16BW1.

For AES Output (RDO-8) Card, use SAS Drawing 16BW1 (SIG 1-8 ONLY).

**FOR RIO LINK,  
USE FIBER OR CAT5,  
BUT NOT BOTH  
SIMULTANEOUSLY**

## J1201

Function: RIO LINK OPTICAL FIBER INTERFACE  
Connector Type: Install Small Form-factor Pluggable (SFP)  
Optical Module from Stratros Lightwave™

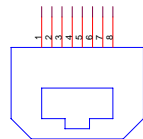
Mating Connector: LC Duplex Fiber Connector

MODULE P/N	MODE/WAVELENGTH	MATE/FIBER CORE	MAX DISTANCE
SPLC-20-4-1-B	Multi-mode/850nm	LC Duplex/50 or 62.5um	300m/985 ft
SPLC-20-1-4-B	Multi-mode/1310nm	LC Duplex/62.5um	2km/1.25 miles
SPLC-20-4-2M-B	Single-mode/1310nm	LC Duplex/9um	10km/6 miles
SPLC-20-4-2L-B	Single-mode/1310nm	LC Duplex/9um	20km/12 miles

Note: Multi-mode --> Orange fiber, Single-mode --> Yellow fiber

## J1202

Function: RIO LINK CAT5 INTERFACE  
Connector Type: CAT5 (RJ-45)

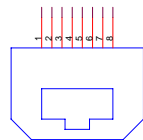


PIN 1 - LINK\_IN+ (TO RIO CHASSIS)  
PIN 2 - LINK\_IN-  
PIN 7 - LINK\_OUT+ (FROM RIO CHASSIS)  
PIN 8 - LINK\_OUT-

Mating Connector: RJ-45 (Use CAT5E, up to 180m (600 ft))

## J1001

Function: ETHERNET CAT5 INTERFACE  
Connector Type: RJ-45

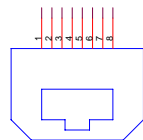


PIN 1 - ENET\_TX+  
PIN 2 - ENET\_TX-  
PIN 3 - ENET\_RX+  
PIN 6 - ENET\_RX-

Mating Connector: RJ-45

## J101/J102

Function: Four AES outputs (available w/ RAD-84 card only)  
Connector Type: RJ-45

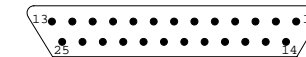


PINS 1/2 - AES Output 1+/- (Slot C), AES Output 9+/- (Slot D)  
PINS 3/6 - AES Output 2+/- (Slot C), AES Output 10+/- (Slot D)  
PINS 5/4 - AES Output 3+/- (Slot C), AES Output 11+/- (Slot D)  
PINS 7/8 - AES Output 4+/- (Slot C), AES Output 12+/- (Slot D)

Mating Connector: RJ-45

## J1502

Function: RS232/RS485/CONFIG INTERFACE  
Connector Type: DB25 (Female)



Mating Connector: DB25 (Male)

### RS232 PORTS 3-5

**PORT 3 (USI)**  
PIN 18 - RS232 PORT 3 TX  
PIN 6 - RS232 PORT 3 RX  
PIN 19 - GROUND

### PORT 4 (USI)

PIN 7 - RS232 PORT 4 TX  
PIN 20 - RS232 PORT 4 RX  
PIN 8 - GROUND

### PORT 5 (USI)

PIN 21 - RS232 PORT 5 TX  
PIN 9 - RS232 PORT 5 RX  
PIN 22 - GROUND

### RS485 PORTS 17-19

**PORT 17**  
PIN 1 - RS485 PORT 17+  
PIN 14 - RS485 PORT 17-  
PIN 2 - GROUND

### PORT 18

PIN 15 - RS485 PORT 18+  
PIN 3 - RS485 PORT 18-  
PIN 16 - GROUND

### PORT 19

PIN 4 - RS485 PORT 19+  
PIN 17 - RS485 PORT 19-  
PIN 5 - GROUND

### STRAPPABLE CONFIGURATION LINES

PIN 13	MODE
NO STRAP	SLAVE
STRAPPED	MASTER

PIN 12	PIN 11	RATE
NO STRAP	NO STRAP	48K
STRAPPED	NO STRAP	44.1K
NO STRAP	STRAPPED	32K
STRAPPED	STRAPPED	UNUSED

PIN 10 - FUTURE USE  
PIN 22 - GROUND

## J1301 (OPTOS 1-16)

USE SAS DRAWING 16BW2.

## J1401 (RELAYS 1-16) & J1501 (RS485 PORTS 1-16)

USE SAS DRAWING 16BW1.

**\* NOTE: All connectors shown are part of RIO rear panel and are drawn as viewed looking at rear panel from outside of unit.**