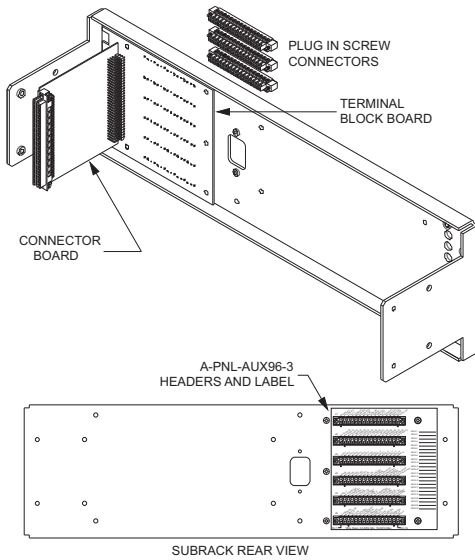
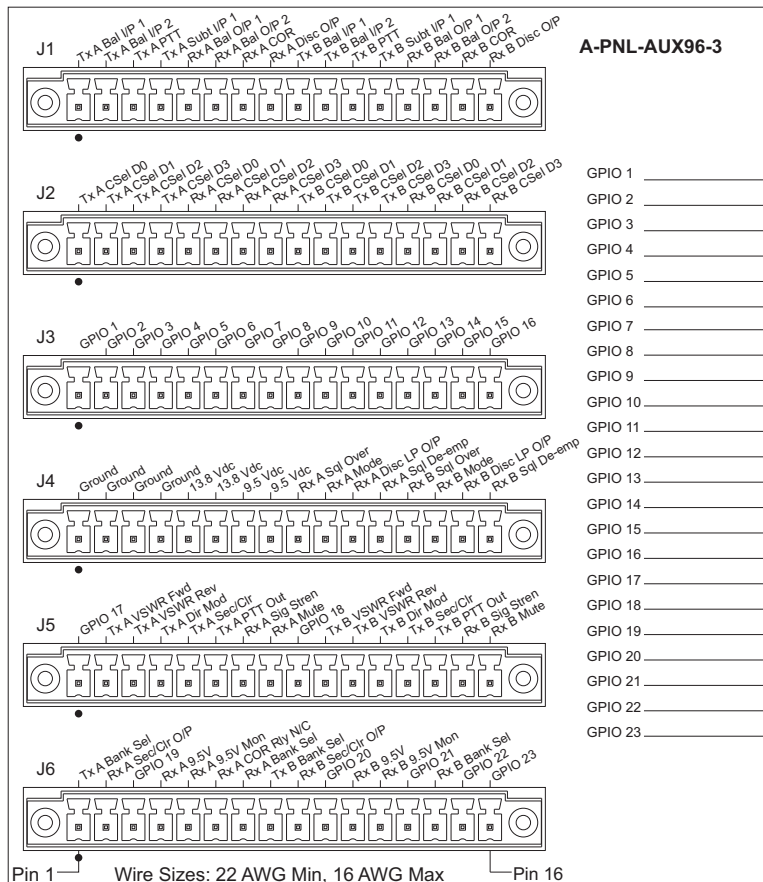


TN800 A-PNL-AUX96-3 Auxiliary Connector



The A-PNL-AUX96-3 option provides convenient access to all signals on the motherboard auxiliary control connector. This is accomplished with two circuit boards: the Terminal Block board and the Connector board. The Terminal Block board mounts to the subrack rear panel and has six 16 pin headers that mate with 16 position plug-in screw connectors. The plug-in screw connectors use a clamping action to secure stranded or solid conductor wires from 22 AWG to 16 AWG and have locking screws to ensure the connector does not loosen due to vibration. A label on the back of the subrack rear panel lists the signals at their respective positions. The Connector board is soldered to the Terminal Block board and provides the interconnection between the auxiliary control connector on the motherboard and the Terminal Block board.



A close-up view of the auxiliary connector label shows the short signal name for each connection point. Definitions for these signals can be found in the SR-39-1 subrack manual. Extra General Purpose Input / Output connectors (GPIO) that can be used for different functions depending on the control card are listed to the right of the connectors. For example, the AC-3E audio control card uses these lines for auxiliary audio inputs / outputs and auxiliary COR / PTT connections. The CI-PM-3 paging modulator uses these signal lines for connecting A/D select lines, 2-level and 4-level data, etc. The custom functions of these connectors will be marked in the blank space next to the signal name.

See Table 1 and Table 2 for a list of connector names by control card and by transmitter and receiver series.

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TN800 A-PNL-AUX96-3 Auxiliary Connector

Table 1: Auxiliary Control Connector Definitions for Control Cards

Name	Old Name	Pin #	AC-3E	CI-BC-4E	CI-PM-3	UIC-4
GPIO 1	Spare 1	J3-1	AUX 1 AUDIO I/P 1	AUX 1 AUDIO I/P 1	DATA OUT	GPAI2 I/P
GPIO 2	Spare 2	J3-2	AUX 1 AUDIO I/P 2	AUX 1 AUDIO I/P 2	CTCSS HU/BUSY	GPAI3 I/P
GPIO 3	Spare 3	J3-3	AUX 2 AUDIO I/P 1	AUX 2 AUDIO I/P 1	REF FAIL ALARM***	GPAI0 I/P
GPIO 4	Spare 4	J3-4	AUX 2 AUDIO I/P 2	AUX 2 AUDIO I/P 2	N/C	GPAI1 I/P
GPIO 5	Spare 5	J3-5	AUX 1 AUDIO O/P 1	AUX 1 AUDIO O/P 1	EXT B/W SEL****	GPAO2 O/P
GPIO 6	Spare 6	J3-6	AUX 1 AUDIO O/P 2	AUX 1 AUDIO O/P 2	N/C	GPAO3 O/P
GPIO 7	IMC 1	J3-7	AUX 2 AUDIO O/P 1	CLEAR KEYS 1	N/C	CLEAR KEYS 1
GPIO 8	IMC 2	J3-8	AUX 2 AUDIO O/P 2	CLEAR KEYS 2	N/C	CLEAR KEYS 2
GPIO 9	Alarm 1	J3-9	AUX 1 COR C	AUX 1 COR C	PTT	GPDO0 O/P
GPIO 10	Alarm 2	J3-10	AUX 1 COR E	AUX 1 COR E	A/D MODE SEL	GPDO1 O/P
GPIO 11	Alarm 3	J3-11	AUX 2 COR C	AUX 2 COR C	2-LVL/4-LVL SEL	GPDO2 O/P
GPIO 12	Alarm 4	J3-12	AUX 2 COR E	AUX 2 COR E	EXT CLOCK	GPDO3 O/P
GPIO 13	Alarm 5	J3-13	AUX 1 PTT A	AUX 1 PTT A	BAL AUDIO 2	GPDI0 I/P
GPIO 14	Alarm 6	J3-14	AUX 1 PTT K	AUX 1 PTT K	4-LVL DATA	GPDI1 I/P
GPIO 15	Alarm 7	J3-15	AUX 2 PTT A	AUX 2 PTT A	BAL AUDIO 1	GPDI2 I/P
GPIO 16	Alarm 8	J3-16	AUX 2 PTT K	AUX 2 PTT K	2-LVL DATA	GPDI3 I/P
GPIO 17	Tx A Audio Cntl	J5-1	N/C*	AUX 2 AUDIO O/P 1	TX A A/D MODE CTRL	GPAO0 O/P
GPIO 18	Tx B Audio Cntl	J5-9	N/C**	AUX 2 AUDIO O/P 2	TX B A/D MODE CTRL	GPAO1 O/P
GPIO 19	Rx A Sql Flat Aud	J6-3	N/C	N/C	N/C	N/C
GPIO 20	Rx B Sql Flat Aud	J6-10	N/C	N/C	N/C	N/C
GPIO 21	N/A	J6-13	N/C	N/C	N/C	RX B MODE I/P
GPIO 22	N/A	J6-15	N/C	N/C	N/C	N/C
GPIO 23	IMC 3	J6-16	N/C	EXT RPT DISABLE	N/C	N/C

* Install SR-39-1 motherboard jumper JU6 for TX A A/D MODE I/P

** Install SR-39-1 motherboard jumper JU7 for TX B A/D MODE I/P.

*** REF FAIL ALARM requires SCARB

**** EXT B/W SEL requires custom modification

TN800 A-PNL-AUX96-3 Auxiliary Connector

Table 2: Auxiliary Control Connector Definitions for Transmitter / Receiver Series

Connector Name	Pin #	MT-3 Module	MT-4E Module
Tx A Bank Sel	J6-1	TX A STANDBY	TX A BANK A/B SEL
Tx B Bank Sel	J6-8	TX B STANDBY	TX B BANK A/B SEL
Rx A Bank Sel	J6-7	RX A ISO COR K	RX A BANK A/B SEL
Rx B Bank Sel	J6-14	RX B ISO COR K	RX B BANK A/B SEL
Tx A Sec/Clr	J5-5	TX A SUBT I/P 2	TX A SEC/CLR I/P
Tx B Sec/Clr	J5-13	TX B SUBT I/P 2	TX B SEC/CLR I/P
Rx A Sec/Clr	J6-2	RX A AMP AUD	RX A SEC/CLR O/P
Rx B Sec/Clr	J6-9	RX B AMP AUD	RX B SEC/CLR O/P
Rx A Mode	J4-10	RX A PRIOR COR	RX A A/D MODE O/P
Rx B Mode	J4-14	RX B PRIOR COR	RX B A/D MODE O/P

TN800 A-PNL-AUX96-3 Auxiliary Connector

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