

MAINTENANCE MANUAL

EDACS® INTERFACE

POWER MONITOR MODULE

FOR SIMULCAST

19C852218G1

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SPECIFICATIONS*

FUNCTIONS

Power Sensor Input Channels 1-20

TX## HI

TX## LO

Auxiliary Analog Inputs (spares)

AIN+##

Antenna Power Sensor Input

ANT0#F HI

ANT0#F LO

ANT0#R HI

ANT0#R LO

Digital Control Output

DOUT##

System Reset

RESET

Digital Alarm Outputs

DOUT##

CONNECTORS

J1, J2 and J5

J3 and J4

J6

J7

Three 25 Pair Telco Connectors

50 position connector, double row.

9-position receptacle assembly

Modular jack (RJ12): 6-position

* These specifications are intended primarily for the use of the service technician. Refer to the appropriate Specifications Sheet in the applicable maintenance manual for the complete specifications.

DESCRIPTION

Power Monitor Interface Module 19C852218G1 for SimulCast is used to collect and route DC voltages proportional to the RF power output of each transmitter in the Simulcast Station within an Enhanced Digital Access Communication System (**EDACS®**). This is done through a common 25 pair cable. This module mounts on EDACS Interface Panel 19D904009 (refer to Maintenance Manual LBI-38812) when associated with SimulCast TX Common Equipment cabinets. The Power Monitor Interface Module consists of three (3) 25 pair Telco connectors (J1, J2 and J5, two (2) 50 position connectors (J3 and J4), one (1) DB-9 connector (J6) and one telephone type modular (RJ12) jack (J7).

CIRCUIT ANALYSIS

Connector J1 is a 25 pair connector used for Power Sensor Inputs from transmit channels 1 through 12. On the Power Monitor Interface module circuit board it connects to connectors J2 and J3.

Connector J2 is a 25 pair connector used for Power Sensor Inputs from transmit channels 11-20. On the circuit board, J2 connects to connectors J1 and J3 (refer to Schematic Diagram 19D903901).

Connector J3 is a 50 position connector used for outputs to the Alarm System for channels 1 -20. On the circuit board, J3 connects to J1 and J2.

Connector J4 is a 50 position connector providing connections from the Power Sensor to the Alarm System. Connector J4 also provides antenna power sensor inputs, digital control outputs and system reset from the alarm system. On the circuit board, J4 connects to connectors J5, J6 and J7.

Connector J5 is a 25 pair connector used for external connections to Digital Alarm outputs. On the circuit board, J5 connects to J4, J6 and J7.

Connector J6 is a 9-position connector used for Antenna Power Sensor Inputs. On the circuit board it connects to J4 and J5.

Connector J7 is a 6-position modular jack used for the System Reset from the alarm system to **General Electric Trunking Cards (GETC's)**. On the circuit board it connects to J4 and J5

The connecting cables to the Power Monitor Interface Module perform functions as follows:

P01 -Brings in transmitter inputs for channels 1 - 12.

P02 -Brings in transmitter inputs for channels 11 - 20.

P03 -Provides Power Sensor inputs to the Alarm System.

P04 -Connects Alarm System antenna inputs and Digital output from the panel.

P05 -Allows connections to the Digital output of the TX site Alarm System.

POWER MODULE FOR SIMULCAST CONNECTIONS

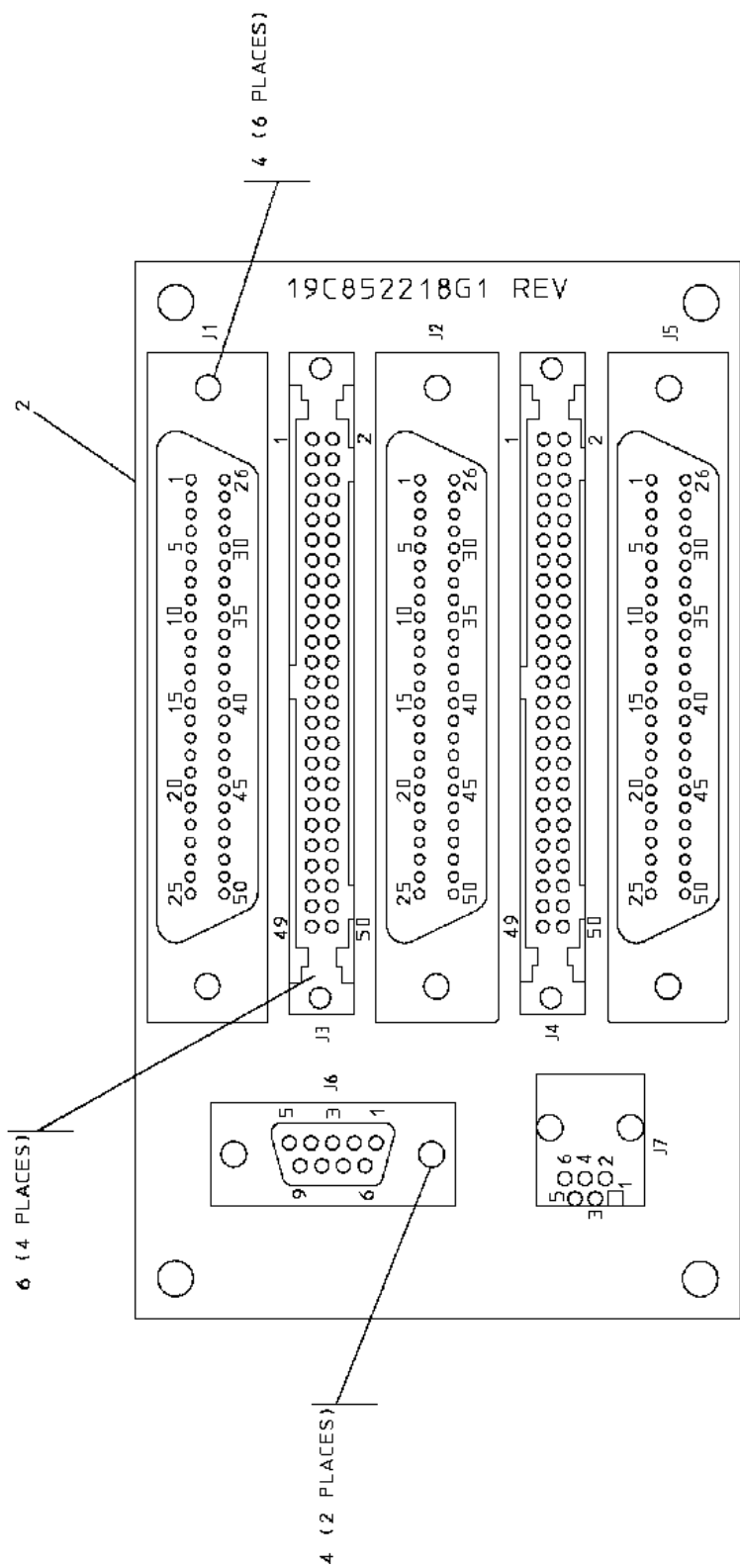
FROM	TO	FUNCTION
DC Voltage From The Transmit Sensors		
J1-1	J3-1	TX01 HI
J1-26	J3-2	TX01 LO
J1-3	J3-3	TX02 HI
J1-28	J3-4	TX02 LO
J1-5	J3-5	TX03 HI
J1-30	J3-6	TX03 LO
J1-7	J3-7	TX04 HI
J1-32	J3-8	TX04 LO
J1-9	J3-9	TX05 HI
J1-34	J3-10	TX05 LO
J1-11	J3-11	TX06 HI
J1-36	J3-12	TX06 LO
J1-13	J3-13	TX07 HI
J1-38	J3-14	TX07 LO
J1-15	J3-15	TX08 HI
J1-40	J3-16	TX08 LO
J1-17	J3-17	TX09 HI
J1-42	J3-18	TX09 LO
J1-19	J3-19	TX10 HI
J1-44	J3-20	TX10 LO
J1-21	J2-1 J3-21	TX11 HI
J1-46	J2-16 J3-22	TX11 LO
J1-23	J2-3 J3-23	TX12 HI
J1-48	J2-28 J3-24	TX12 LO
J2-5	J3-25	TX13 HI
J2-30	J3-26	TX13 LO
J2-7	J3-27	TX14 HI
J2-32	J3-28	TX14 LO
J2-9	J3-29	TX15 HI
J2-34	J3-30	TX15 LO
J2-11	J3-31	TX16 HI
J2-36	J3-32	TX16 LO
J2-13	J3-33	TX17 HI
J2-38	J3-34	TX17 LO
J2-15	J3-35	TX18 HI
J2-40	J3-36	TX18 LO
J2-17	J3-37	TX19 HI
J2-42	J3-38	TX19 LO
J2-19	J3-39	TX20 HI
J2-44	J3-40	TX20 LO

FROM	TO	FUNCTION
Auxiliary Analog Inputs (Spares)		
J4-1	J5-1	AIN+25
J4-2	J5-26	AIN-25
J4-3	J5-2	AIN+26
J4-4	J5-27	AIN-26
J4-5	J5-3	AIN+27
J4-6	J5-28	AIN-27
J4-7	J5-4	AIN+28
J4-8	J5-29	AIN-28
DC Voltage (Forward and Reverse Power) HI and LO From Antenna Sensors		
J4-9	J5-5 J6-1	ANT01F HI
J4-10	J5-30 J6-6	ANT01F LO
J4-11	J5-6 J6-2	ANT01R HI
J4-12	J5-31 J6-7	ANT01R LO
J4-13	J5-7 J6-3	ANT02F HI
J4-14	J5-32 J6-8	ANT02F LO
J4-15	J5-8 J6-4	ANT02R HI
J4-16	J5-33 J6-9	ANT02R LO

FROM	TO	FUNCTION
Digital Outputs From the Alarm System		
J4-17	J5-9	DOUT17
J4-18	J5-34	DOUT18
J4-19	J5-10	DOUT19
J4-20	J5-35	DOUT20
J4-21	J5-11	DOUT21
J4-22	J5-36	DOUT22
J4-23	J5-12	DOUT23
J4-24	J5-37	DOUT24
J4-25	J5-13	DOUT25
J4-26	J5-38	DOUT26
J4-27	J5-14	DOUT27
J4-28	J5-39	DOUT28
J4-29	J5-15	DOUT29
J4-30	J5-40	DOUT30
J4-31	J5-16	DOUT01
J4-32	J5-41	DOUT02
J4-33	J5-17	DOUT03
J4-34	J5-42	DOUT04
J4-35	J5-18	DOUT05
J4-36	J5-43	DOUT06
J4-37	J5-19	DOUT07
J4-38	J5-44	DOUT08
J4-39	J5-20	DOUT09
J4-40	J5-45	DOUT10
J4-41	J5-21	DOUT11
J4-42	J5-46	DOUT12
J4-43	J5-22	DOUT13
J4-44	J5-47	DOUT14
J4-45	J5-23	DOUT15
J4-46	J5-48	DOUT16
J4-47	J5-24	DOUT31
J4-48	J5-49 J7-2,3,4,5	System RESET from Alarm System
J4-49	J5-25	GNDOUT
J4-50	J5-50	GNDOUT

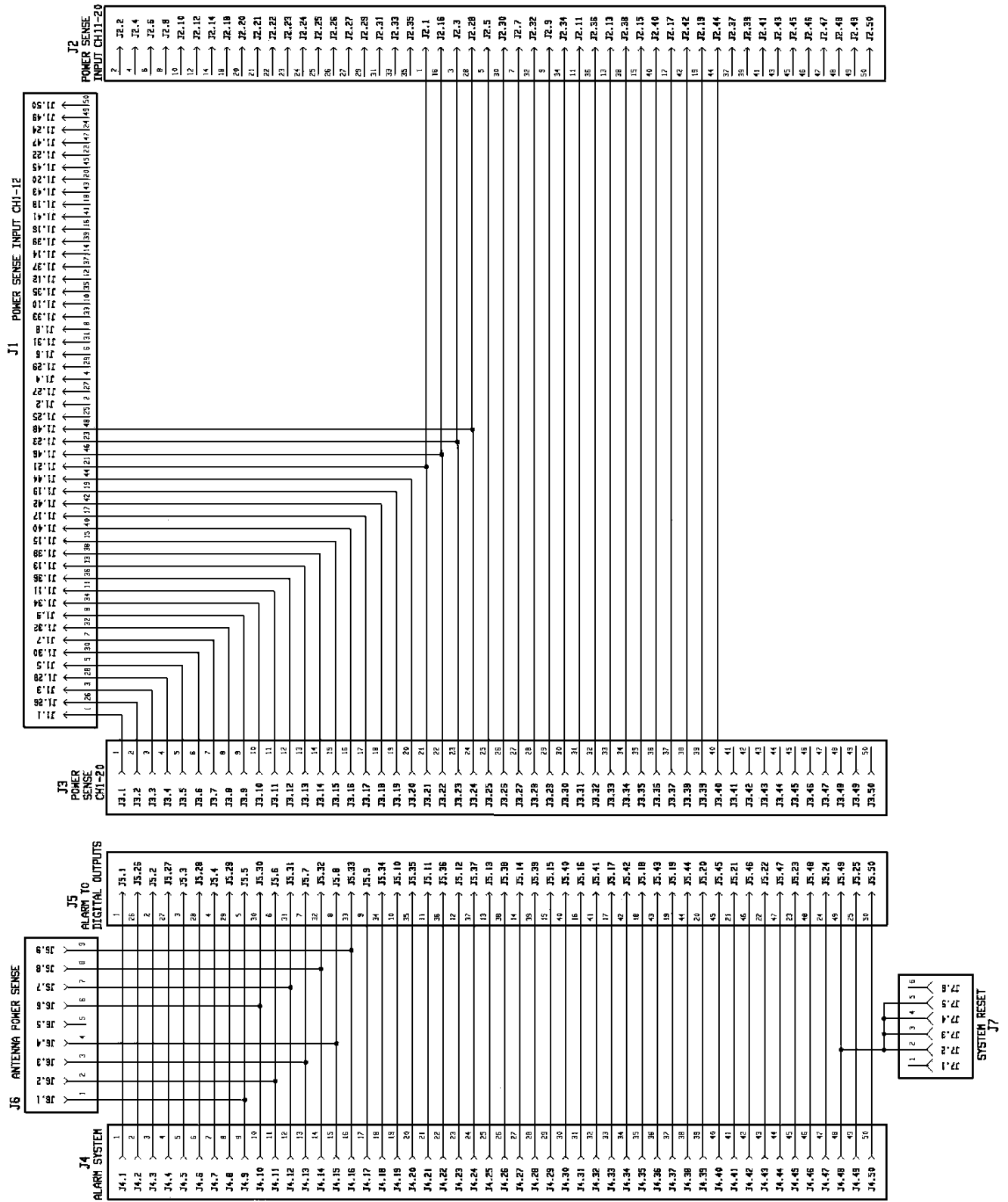
**Power Monitor Module
19C852218G1**

SYMBOL	PART NUMBER	DESCRIPTION
J1 and J2 J3 and J4 J5	19B800935P15	----- JACKS ----- Two 25 Pair Telco Connectors with Bail Lock
J6 and J7	19B235546P1	Two 50 position connectors, double row; sim to AMP 1-102154-0
J1	19B800935P15	25 Pair Telco Connector with Bail Lock
J6	19B209727P52	9 position receptacle assembly with screw-locks
J7	344A3288P1	Modular jack: 6-position; sim to AMP 520425-3.
2	19C852217P1	----- MISCELLANEOUS ----- Printed Wire Board
3	19D903901	Schematic Diagram
4	N80P9004B6	Machine screw: No. 4-40 x 1/4. Zinc Plated
6	19B235546P3	Latches for J1 & J2



POWER MONITOR MODULE

(19C852218 Sh. 1, Rev. 6)



POWER MONITOR MODULE

(19D903901, Rev. 2)

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