

MAINTENANCE MANUAL
EDACS®
INTERFACE MODULE
19C852204G1

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SPECIFICATIONS*

STATION FUNCTIONS

REC HI, REC LO, RX DATA, RX MODEM HI, RX MODEM LO, TX
HI, TX LO, TX DATA, TX MODEM HI, TX MODEM LO, PWR HI,
PWR LO

COMMON CABLE

One 25 Twisted Pair

CONNECTORS

J14 and J15

Two 25 Pair Telco Connectors with Bail Lock

J1 Thru J12

Six 6-Position, Six Contact Module (RJ12)

*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

Interface Module 19C852204G1 is used to route audio/data throughout an Enhanced Digital Access Communication System (EDACS). A single Interface Module can collect up to twelve (12) station functions on a single 25 pair common cable. This Interface Module mounts in the EDACS Interconnect Panel 19D904009 (refer to Maintenance Manual LBI-38812). Applications for the interface board are as follows:

- Audio In
- GETC Data
- Modem Data
- Power Sensor
- RIC Audio
- Station Audio
- TUAI GETC

CIRCUIT ANALYSIS

The Interface Module maps up to twelve (12) circuits of four (4) wire audio/data information from two (2) series connected 25 pair Telco connectors (J14 and J15) to up to twelve (12) parallel connected four (4) wire circuits on RJ12

connectors (J1 through J12). Refer to Schematic Diagram 19D903852 and the Wiring List listed in the Table of Contents. With this connection arrangement, up to twelve station functions can be collected on one common cable. As an example, Pin 1 of J14 and J15 connects to Pin 2 of J1. Pin 26 of J14 and J15 connects to Pin 2 of J1. Pin 2 of J14 and J15 connects to Pin 4 of J1 and Pin 27 of J14 and J15 connects to Pin 5 of J1. Pins 1 and 6 of J1 are not used. Similarly Pin 3 of J14 and J15 connect to Pin 2 of J2. Pin 28 of J14 and J15 connects to Pin 3 of J2 and Pin 4 of J14 and J15 connects to Pin 4 of J2. Again, Pins 1 and 6 of J2 are not used.

With this wiring arrangement, access to each station function can be gained simply by looking into a plug on the end of the common cable and picking out the pair of connectors pertaining to that function. See Figure 1.

The station function on RJ12 connector J1 can be monitored at Pins 1, 26, 2 and 27. The station function on RJ12 connector J2 can be monitored at Pins 3, 28, 4 and 29. Pin 26 is directly opposite Pin 1. Pin 27 is directly opposite Pin 2. Pin 28 is directly opposite Pin 3 and Pin 29 is directly opposite Pin 4.

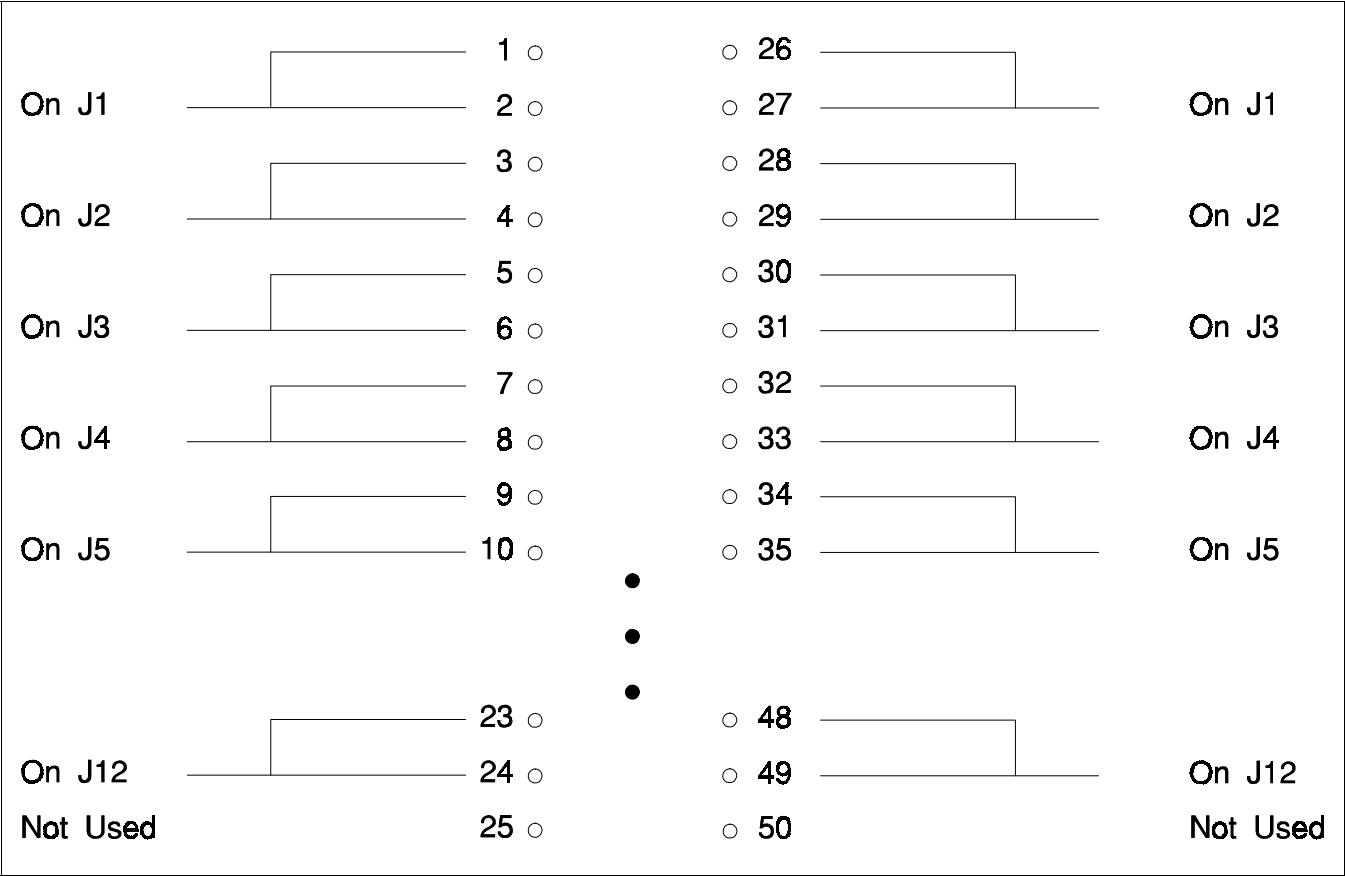
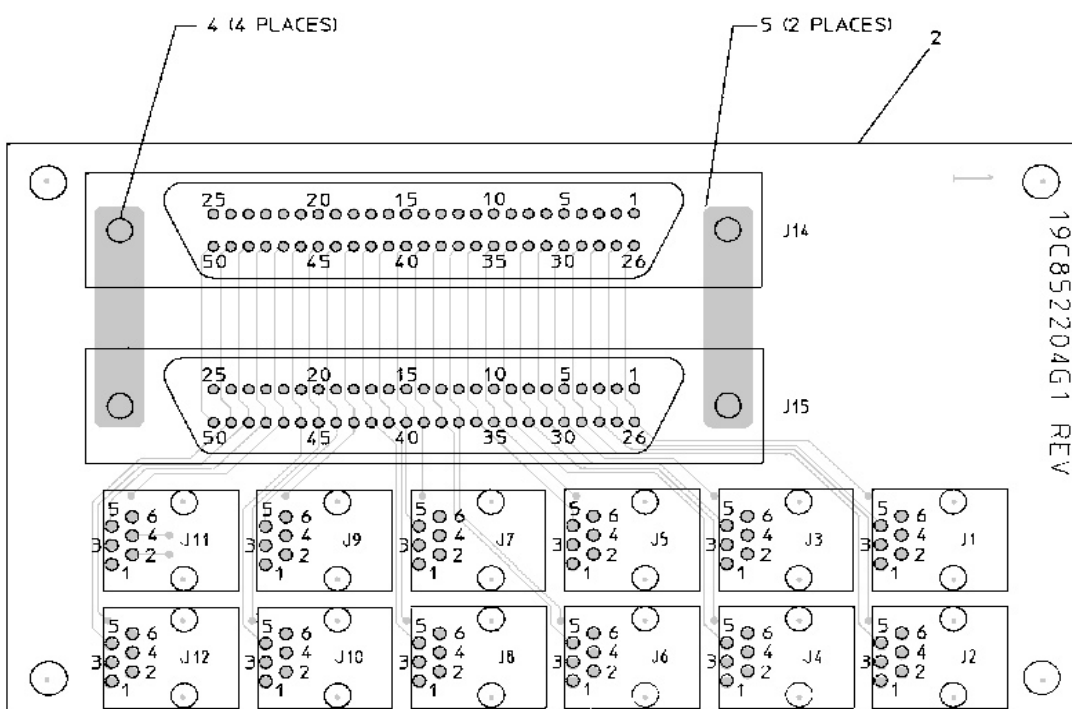


Figure 1 - Connector On The End Of The Common Cable

TABLE OF INTERFACE MODULE CONNECTIONS

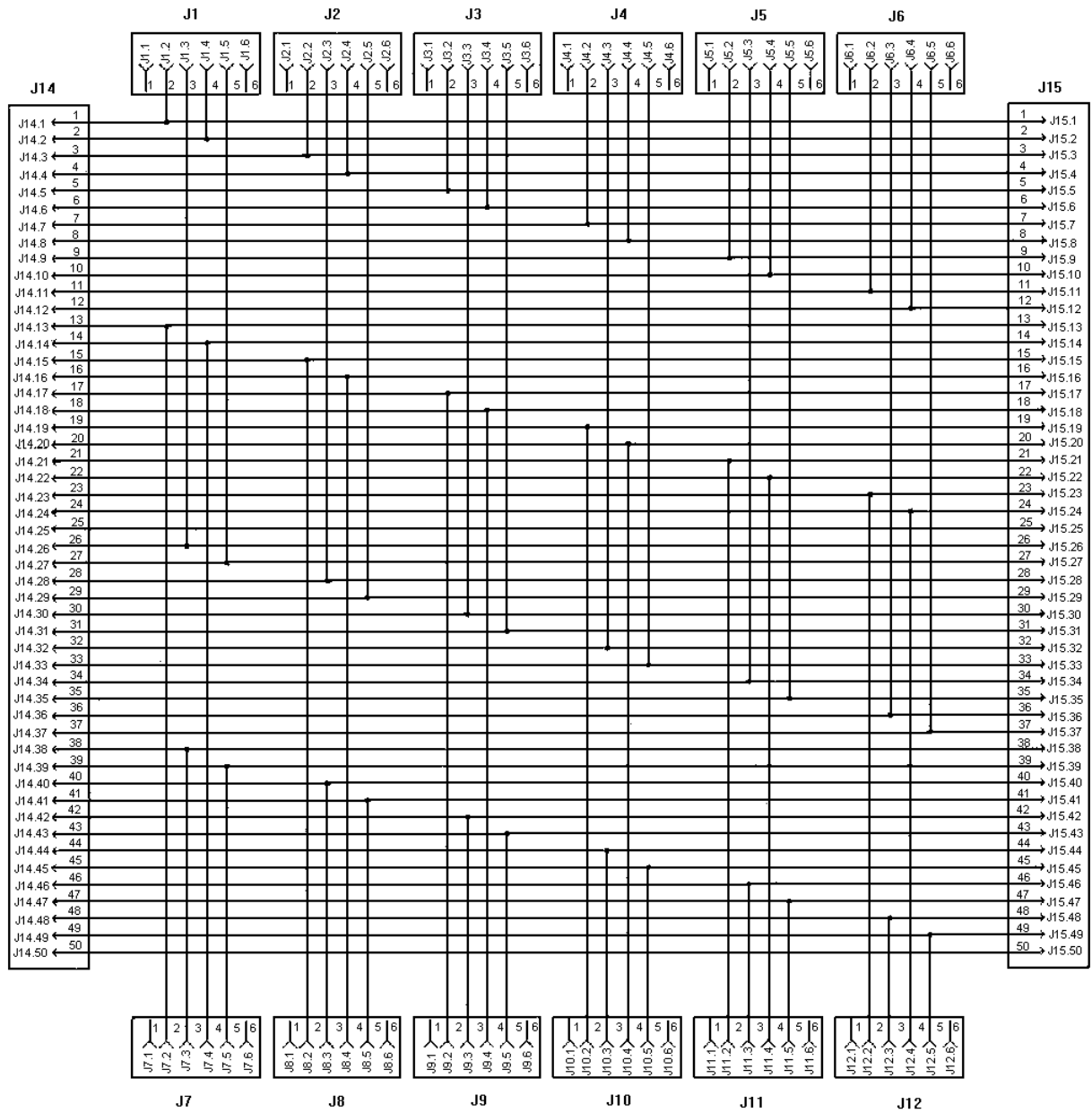
From	To	From	To	STATION
J14/J15-1 J14/J15-2	J1-2 J1-4	J14/J15-26 J14/J15-27	J1-3 J1-5	STN-01 STN-01
J14/J15-3 J14/J15-4	J2-2 J2-4	J14/J15-26 J14/J15-27	J2-3 J2-5	STN-02 STN-02
J14/J15-5 J14/J15-6	J3-2 J3-4	J14/J15-26 J14/J15-27	J3-3 J3-5	STN-03 STN-03
J14/J15-7 J14/J15-8	J4-2 J4-4	J14/J15-26 J14/J15-27	J4-3 J4-5	STN-04 STN-04
J14/J15-9 J14/J15-10	J5-2 J5-4	J14/J15-26 J14/J15-27	J5-3 J5-5	STN-05 STN-05
J14/J15-11 J14/J15-12	J6-2 J6-4	J14/J15-26 J14/J15-27	J6-3 J6-5	STN-06 STN-06
J14/J15-13 J14/J15-14	J7-2 J7-4	J14/J15-26 J14/J15-27	J7-3 J7-5	STN-07 STN-07
J14/J15-15 J14/J15-16	J8-2 J8-4	J14/J15-26 J14/J15-27	J8-3 J8-5	STN-08 STN-08
J14/J15-17 J14/J15-18	J9-2 J9-4	J14/J15-26 J14/J15-27	J9-3 J9-5	STN-09 STN-09
J14/J15-19 J14/J15-20	J10-2 J10-4	J14/J15-26 J14/J15-27	J10-3 J10-5	STN-10 STN-10
J14/J15-21 J14/J15-22	J11-2 J11-4	J14/J15-26 J14/J15-27	J11-3 J11-5	STN-11 STN-11
J14/J15-23 J14/J15-24	J12-2 J12-4	J14/J15-26 J14/J15-27	J12-3 J12-5	STN-12 STN-12
J14/J15-25	NOT USED	J14/J15-50	NOT USED	-----

COMPONENT SIDE



EDACS INTERFACE BOARD

(19C852204, Rev. 0)
 (19C852203, Rev. 1, Component Side)



EDACS Interface Board

(19D903852, Rev. 0)

EDACS
INTERFACE BOARD
19C852204G1
Issue 1

SYMBOL	PART NO.	DESCRIPTION
		----- JACKS -----
J1	344A3288P1	Modular jack: 6-position; sim to AMP 520425-3.
thru		
J12		
J14	19B800935P14	Two 25 Pair Telco Connectors with Bail Lock.
and		
J15		----- MISCELLANEOUS -----
4	N80P9004B6	Machine screw: No. 4-40 x 1/4.
5	19B800935P15	Bail Clip

COMPONENTS ADDED, DELETED ORCHANGED BY PRODUCTION CHANGES

WIRING LIST **(19D904041P1, REV. 0)**

EDACS INTERFACE MODULE **19C852204G1**

J14 - J15 ARE 25 PAIR TELCO CONNECTORS														
J01-J12 RE RJ12 SIX CIRCUIT FOUR LOADED (POSITION 1 AND 6 N/C)														
J14-01	J15-01	J01-2	STN-01	REC	HI	GND		CHN01	RX	MODEM	HI	CHN01	PWR	HI
J14-02	J15-02	J01-4	STN-01	TX	HI	SHIELD	GND	CHN01	TX	MODEM	HI			
J14-03	J15-03	J02-2	STN-02	REC	HI	GND		CHN02	RX	MODEM	HI	CHN02	PWR	HI
J14-04	J15-04	J02-4	STN-02	TX	HI	SHIELD	GND	CHN02	TX	MODEM	HI			
J14-05	J15-05	J03-2	STN-03	REC	HI	GND		CHN03	RX	MODEM	HI	CHN03	PWR	HI
J14-06	J15-06	J03-4	STN-03	TX	HI	SHIELD	GND	CHN03	TX	MODEM	HI			
J14-07	J15-07	J04-2	STN-04	REC	HI	GND		CHN04	RX	MODEM	HI	CHN04	PWR	HI
J14-08	J15-08	J04-4	STN-04	TX	HI	SHIELD	GND	CHN04	TX	MODEM	HI			
J14-09	J15-09	J05-2	STN-05	REC	HI	SND		CHN05	RX	MODEM	HI	CHN05	PWR	HI
J14-10	J15-10	J05-4	STN-05	TX	HI	SHIELD	GND	CHN05	TX	MODEM	HI			
J14-11	J15-11	J06-2	STN-06	REC	HI	GND		CHN06	RX	MODEM	HI	CHN06	PWR	HI
J14-12	J15-12	J06-4	STN-06	TX	HI	SHIELD	GND	CHN06	TX	MODEM	HI			
J14-13	J15-13	J07-2	STN-07	REC	HI	GND		CHN07	RX	MODEM	HI	CHN07	PWR	HI
J14-14	J15-14	J07-4	STN-07	TX	HI	SHIELD	GND	CHN07	TX	MODEM	HI			
J14-15	J15-15	J08-2	STN-08	REC	HI	GND		CHN08	RX	MODEM	HI	CHN08	PWR	HI
J14-16	J15-16	J08-4	STN-08	TX	HI	SHIELD	GND	CHN08	TX	MODEM	HI			
J14-17	J15-17	J09-2	STN-09	REC	HI	GND		CHN09	RX	MODEM	HI	CHN09	PWR	HI
J14-18	J15-18	J09-4	STN-09	TX	HI	SHIELD	GND	CHN09	TX	MODEM	HI			
J14-19	J15-19	J10-2	STN-10	REC	HI	GND		CHN010	RX	MODEM	HI	CHN10	PWR	HI
J14-20	J15-20	J10-4	STN-10	TX	HI	SHIELD	GND	CHN010	TX	MODEM	HI			
J14-21	J15-21	J11-2	STN-11	REC	HI	GND		CHN011	RX	MODEM	HI	CHN11	PWR	HI
J14-22	J15-22	J11-4	STN-11	TX	HI	SHIELD	GND	CHN011	TX	MODEM	HI			
J14-23	J15-23	J12-2	STN-12	REC	HI	GND		CHN012	RX	MODEM	HI	CHN12	PWR	HI
J14-24	J15-24	J12-4	STN-12	TX	HI	SHIELD	GND	CHN012	TX	MODEM	HI			
J14-25	J15-25													
J14-26	J15-26	J01-3	STN-01	REC	LO	CHN01	RX DATA	CHN01	RX	MODEM	LO	CHN01	PWR	LO
J14-27	J15-27	J01-5	STN-01	TX	LO	CHN01	TX DATA	CHN01	TX	MODEM	LO			
J14-28	J15-28	J02-3	STN-02	REC	LO	CHN02	RX DATA	CHN02	RX	MODEM	LO	CHN02	PWR	LO
J14-29	J15-29	J02-5	STN-02	TX	LO	CHN02	TX DATA	CHN02	TX	MODEM	LO			
J14-30	J15-30	J03-3	STN-03	REC	LO	CHN03	RX DATA	CHN03	RX	MODEM	LO	CHN03	PWR	LO
J14-31	J15-31	J03-5	STN-03	TX	LO	CHN03	TX DATA	CHN03	TX	MODEM	LO			
J14-32	J15-32	J04-3	STN-04	REC	LO	CHN04	RX DATA	CHN04	RX	MODEM	LO	CHN04	PWR	LO
J14-33	J15-33	J04-5	STN-04	TX	LO	CHN04	TX DATA	CHN04	TX	MODEM	LO			
J14-34	J15-34	J05-3	STN-05	REC	LO	CHN05	RX DATA	CHN05	RX	MODEM	LO	CHN05	PWR	LO
J14-35	J15-35	J05-5	STN-05	TX	LO	CHN05	TX DATA	CHN05	TX	MODEM	LO			
J14-36	J15-36	J06-3	STN-06	REC	LO	CHN06	RX DATA	CHN06	RX	MODEM	LO	CHN06	PWR	LO
J14-37	J15-37	J06-5	STN-06	TX	LO	CHN06	TX DATA	CHN06	TX	MODEM	LO			
J14-38	J15-38	J07-3	STN-07	REC	LO	CHN07	RX DATA	CHN07	RX	MODEM	LO	CHN07	PWR	LO
J14-39	J15-39	J07-5	STN-07	TX	LO	CHN07	TX DATA	CHN07	TX	MODEM	LO			
J14-40	J15-40	J08-3	STN-08	REC	LO	CHN08	RX DATA	CHN08	RX	MODEM	LO	CHN08	PWR	LO
J14-41	J15-41	J08-5	STN-08	TX	LO	CHN08	TX DATA	CHN08	TX	MODEM	LO			
J14-42	J15-42	J09-3	STN-09	REC	LO	CHN09	RX DATA	CHN09	RX	MODEM	LO	CHN09	PWR	LO
J14-43	J15-43	J09-5	STN-09	TX	LO	CHN09	TX DATA	CHN09	TX	MODEM	LO			
J14-44	J15-44	J10-3	STN-10	REC	LO	CHN10	RX DATA	CHN10	RX	MODEM	LO	CHN10	PWR	LO
J14-45	J15-45	J10-5	STN-10	TX	LO	CHN10	TX DATA	CHN10	TX	MODEM	LO			
J14-46	J15-46	J11-3	STN-11	REC	LO	CHN11	RX DATA	CHN11	RX	MODEM	LO	CHN11	PWR	LO
J14-47	J15-47	J11-5	STN-11	TX	LO	CHN11	TX DATA	CHN11	TX	MODEM	LO			
J14-48	J15-48	J12-3	STN-12	REC	LO	CHN12	RX DATA	CHN12	RX	MODEM	LO	CHN12	PWR	LO
J14-49	J15-49	J12-5	STN-12	TX	LO	CHN12	TX DATA	CHN12	TX	MODEM	LO			
J14-50	J15-50													

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