

MAINTENANCE MANUAL EDACS® INTERFACE TUAI FOR SIMULCAST 19C852339G1

TABLE OF CONTENTS

	<u>Page</u>
SPECIFICATIONS	1
PARTS LIST	1
DESCRIPTION	2
CIRCUIT ANALYSIS AND WIRING INFORMATION	2
OUTLINE DIAGRAM	4
SCHEMATIC DIAGRAM	5

SPECIFICATIONS*

FUNCTIONS	TUAI CH01 thru CH25 TUAI TU01 thru TU05
CONNECTORS	
J1 thru J5	Modular Telephone jack: 6 position
J9 and J10	Two 25 Pair Telco Connectors

PARTS LIST TUAI For Simulcast Module 19C852339G1

SYMBOL	PART NUMBER	DESCRIPTION
		----- JACKS -----
J1 thru J8	344A3288P1	Modular jack; 6-position; Sim to AMP 520425-3.
J9 and J10	19B800935P14	25-pair Telco connectors with bail lock.
		----- MISCELLANEOUS -----
3	N80P9004B6	Machine Screw, #4-40 x ", zinc plated.
5	19B800935P15	Bail Clip.

* 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

Test Unit Alarm Interface (TUA) Module 19C852219G1 is used to collect and route Test Unit Alarm Interface data throughout an Enhanced Digital Access Communication System (EDACS) through a common 25 pair cable. This module mounts on EDACS Interface Panel 19D904009 (refer to Maintenance Manual LBI38812) when associated with Simulcast Station and Simulcast Common Equipment cabinets. The TUA Module consists of five (5) telephone type modular (RJ12) jacks J1 through J5, and two 25 pair Telco connectors J9 and J10.

Connectors J1 through J5 connect to the common connections between connectors J9 and J10 (refer to Schematic Diagram 19D904471). Through printed circuit wiring, connector J1, Pins 1 through 5 connect to TUA channels 1 through 5 (**CH01 through CH05**), respectively. Connector J1, Pin 6 connects to Test Unit #1 (**TU01**) through J9, Pin 28.

Connector J2, Pins 1 through 5 connects to TUA channels 6 through 10 (**CH06 through CH10**). Connector J2, Pin 6 connects to Test Unit #2 (**TU02**) through J9, Pin 14.

Connector J3, Pins 1 through 5 connect to TUA channels 11 through 15 (**CH11 through CH15**). Connector J3, Pin 6 connects to Test Unit #3 (**TU03**) through J9, Pin 39.

Connector J4, Pins 1 through 5 connects to TUA channels 16 through 20 (**CH16 through CH20**). Connector J4, Pin 6 connects to Test Unit #4 (**TU04**) through J9, Pin 15.

Connector J5, Pins 1 through 5 connects to TUA channels 21 through 25 (**CH21 through CH25**).

CIRCUIT ANALYSIS

The Test Unit Alarm Interface Module maps up to twenty five (25) TUA channels, and five (5) Test Units to five (5) modular telephone jacks. These modular jacks connect to the various input/outputs within an EDACS System (refer to Schematic Diagram 19D904471). The TUA Interface Module wiring arrangement is apparent when looking into the end of the common cable connecting J9 to J10 and having the channel and test unit connections designated in this pattern (refer to Figure 1).

SIGNAL	PIN NUMBERS		SIGNAL
CH01	1	26	CH02
CH03	2	27	CH04
CH05	3	28	CH06
CH07	4	29	CH08
CH09	5	30	CH10
CH11	6	31	CH12
CH13	7	32	CH14
CH15	8	33	CH16
CH17	9	34	CH18
CH19	10	35	CH20
CH21	11	36	CH22
CH23	12	37	CH24
CH25	13	38	TU01
TU02	14	39	TU03
TU04	15	40	TU05
	16	41	
	17	42	
	18	43	
	19	44	
	20	45	
	21	46	
	22	47	
	23	48	
	24	49	
	25	50	

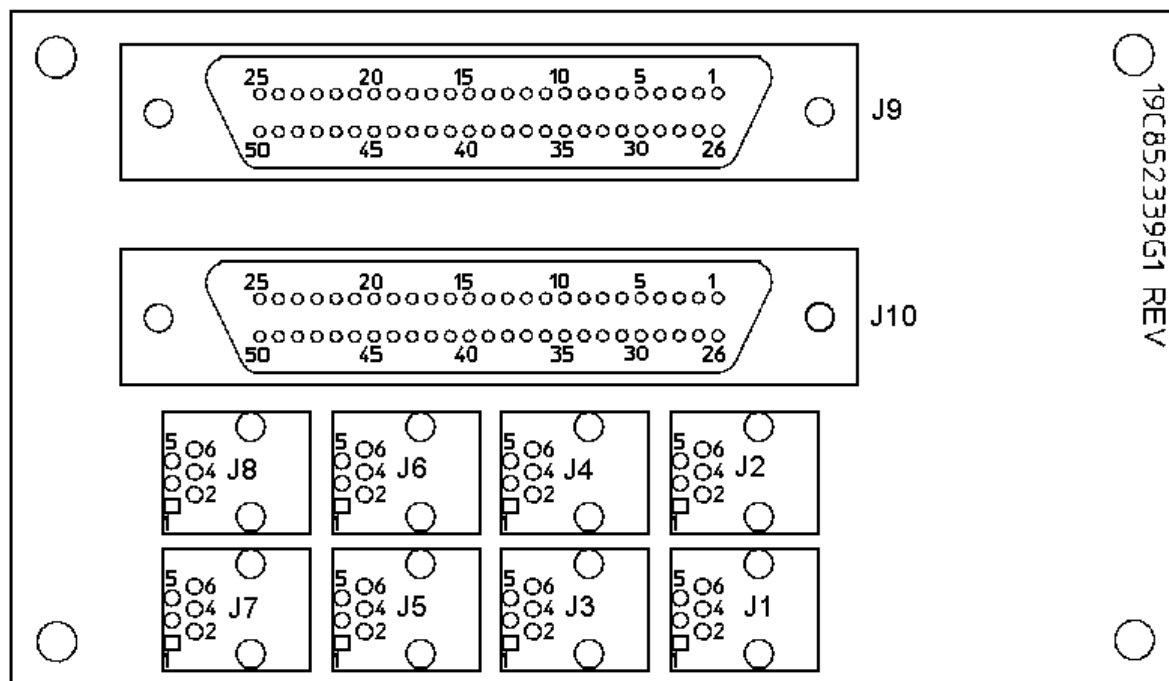
Figure 1 - Pin Assignments Looking Into Connections Between J9 and J10



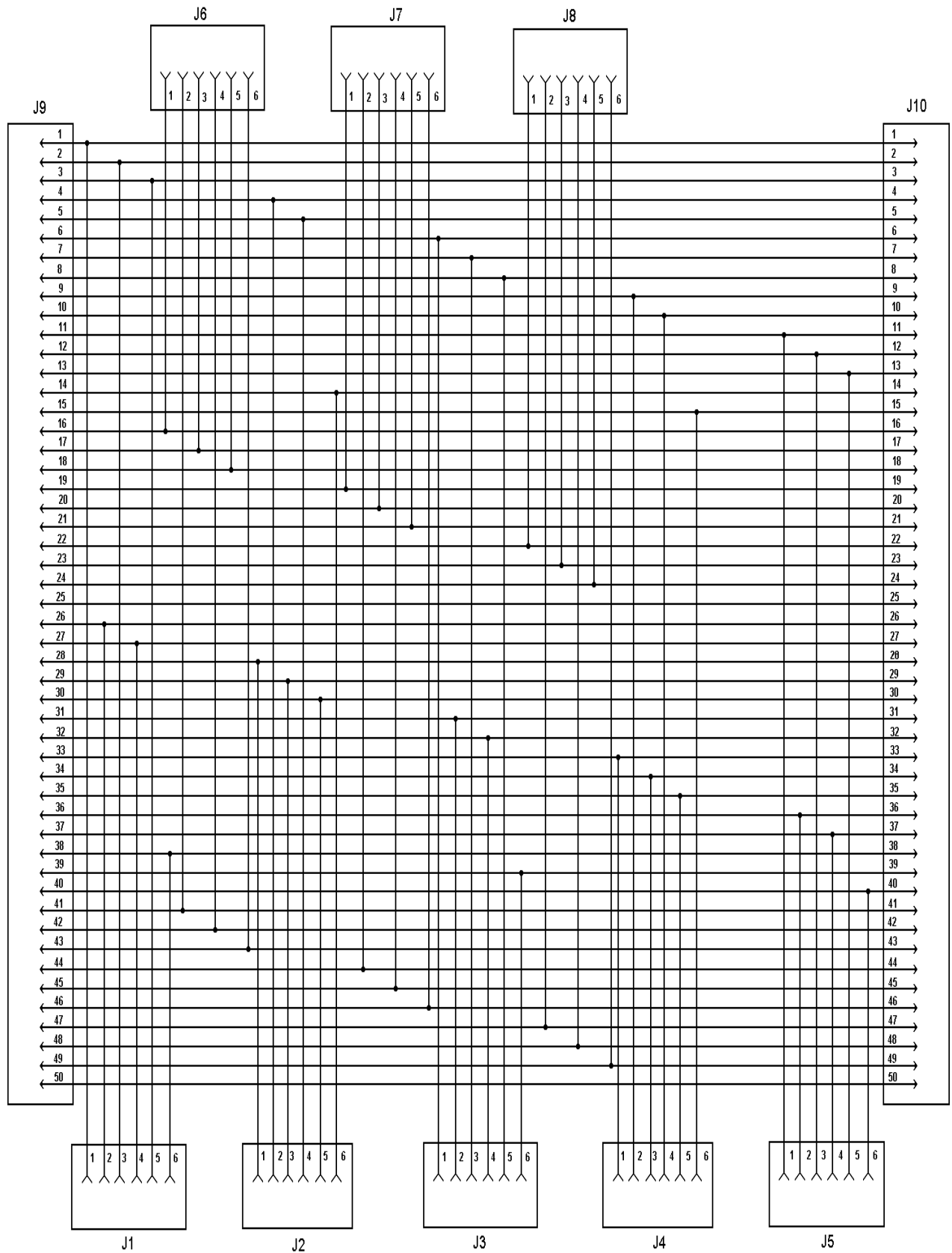
Ericsson GE Mobile Communications Inc.
Mountain View Road • Lynchburg, Virginia 24502

TABLE OF TUAI INTERFACE MODULE CONNECTIONS

FROM	CONNECTS TO	SIGNAL
J9-01 J10-01	J1-1	CH01
J9-26 J10-26	J1-2	CH02
J9-02 J10-02	J1-3	CH03
J9-27 J10-27	J1-4	CH04
J9-03 J10-01	J1-5	CH05
J9-38 J10-38	J1-6	TU01
J9-28 J10-28	J2-1	CH06
J9-04 J10-04	J2-2	CH07
J9-29 J10-29	J2-3	CH08
J9-05 J10-05	J2-4	CH09
J9-30 J10-30	J2-5	CH10
J9-14 J10-14	J2-6	TU02
J9-06 J10-06	J3-1	CH11
J9-31 J10-31	J3-2	CH12
J9-07 J10-07	J3-3	CH13
J9-32 J10-32	J3-4	CH14
J9-08 J10-08	J3-5	CH15
J9-39 J10-39	J3-6	TU03
J9-33 J10-33	J4-1	CH16
J9-09 J10-09	J4-2	CH17
J9-34 J10-34	J4-3	CH18
J9-10 J10-10	J4-4	CH19
J9-35 J10-35	J4-5	CH20
J9-15 J10-15	J4-6	TU04
J9-11 J10-11	J5-1	CH21
J9-36 J10-36	J5-2	CH22
J9-12 J10-12	J5-3	CH23
J9-37 J10-37	J5-4	CH24
J9-13 J10-13	J5-5	CH25
J9-40 J10-40	J5-6	TU05
J9-16 J10-16	J6-1	
J9-17 J10-17	J6-3	
J9-18 J10-18	J6-5	
J9-19 J10-19	J7-1	
J9-20 J10-20	J7-3	
J9-21 J10-21	J7-5	
J9-22 J10-22	J8-1	
J9-23 J10-23	J8-3	
J9-24 J10-24	J8-5	
J9-25 J10-25	---	
J9-41 J10-41	J6-2	
J9-42 J10-42	J6-4	
J9-43 J10-43	J6-6	
J9-44 J10-44	J7-2	
J9-45 J10-45	J7-4	
J9-46 J10-46	J7-6	
J9-47 J10-47	J8-2	
J9-48 J10-48	J8-4	
J9-49 J10-49	J8-6	
J9-50 J10-50	---	

**TUAI MODULE FOR SIMULCAST**

(19C852339, Rev. 4)



TUAI MDOULE FOR SIMULCAST