MAINTENANCE MANUAL

INTEGRATED MULTISITE & CONSOLE CONTROLLER DATA CONCENTRATOR CARD 19D903525P1

TABLE OF CONTENTS

DESCRIPTION

GENERAL

Concentrator cards simplify connections Integrated Multisite & Console (IMC) Controller to the . By installing the cards in the audio and data paths between the IMC and other pieces of equipment, interfacing between a site or console and the switch requires fewer kinds of cables. The cards, mounted on the rear of the cabinet, route many of the signals from the IMC. Most of the cards concentrate the signals from several backplane connectors into one or two large connectors that interface to the site, console, etc.

Most of the concentrator cards make it possible to make IMC connections at punch-blocks. With the exception of the card for the MOM PC, each converts the signal arrangement on the backplane connectors to the arrangement on the punch-blocks. The concentrators perform a conversion from two-row, 24-pin connectors to 50-pin Champ connectors. Cables with the same two-row, 24-pin connectors on both ends carry signals between the backplane and the concentrators. 25-pair cables carry the signals between the concentrators and punch-blocks or other signal break-out devices.

DATA CONCENTRATOR CARD

Specifications

Height: 5 inches

Width: 4.25 inches

Thickness: 0.093 inches

Description

This card routes data to/from sites (uplinks) and consoles. It supports up to ten sites/consoles.

The card has ten 24-pin, two-row connectors on the back for connecting to as many as ten MIM, CIM, or Translator controller boards.

The front of the card contains three Champ connectors. The type of interface determines which connector to use. Use J11 to connect C3 desktop consoles to the switch, J12 for C3 Maestro (CRT) consoles, and J13 to carry signals for uplink GETCs. On each Champ connector, the first two pairs of terminals go to J1, the next two pairs to J2, etc.

If using the data concentrator card to interface ten C3 consoles to the MSC-II, then only J11 needs to be taken to a punch-block. However, if the total number of interfaces is not greater than ten, then you can use a single concentrator card to connect the MSC-II to sites, C3 consoles, and CRT consoles. If this is done, then take J11, J12, and J13 to punch-blocks.

For example, if there is a C3 desktop console connected to J1, CRT consoles at J2 and J3, and site uplinks at J4 and J5, the signals would appear at the locations shown below.

J11			
1	Desktop Tx H	26	Desktop Tx L
2	Desktop Rx H	27	Desktop Rx L
J12			
3	CRT 1 Tx H	28	CRT 1 Tx L
4	CRT 1 Rx H	29	CRT 1 Rx L
5	CRT 2 Tx H	30	CRT 2 Tx L
6	CRT 2 Rx H	31	CRT 2 Rx L
J13			
7	Site 1 Tx H	32	Site 1 Tx L
8	Site 1 Rx H	33	Site 1 Rx L
9	Site 2 Tx H	34	Site 2 Tx L
10	Site 2 Rx H	35	Site 2 Rx L

The signal arrangement at the 50-pin connectors is shown below.

J11 - for C3 Consoles					
1	J1-5	Tx1 422+	26	J1-3	Tx1 422-
2	J1-24	Rx1 422+	27	J1-23	Rx1 422-
3	J2-5	Tx1 422+	28	J2-3	Tx1 422-
4	J2-24	Rx1 422+	29	J2-23	Rx1 422-
5	J3-5	Tx1 422+	30	J3-3	Tx1 422-
6	J3-24	Rx1 422+	31	J3-23	Rx1 422-
7	J4-5	Tx1 422+	32	J4-3	Tx1 422-
8	J4-24	Rx1 422+	33	J4-23	Rx1 422-
9	J5-5	Tx1 422+	34	J5-3	Tx1 422-
10	J5-24	Rx1 422+	35	J5-23	Rx1 422-
11	J6-5	Tx1 422+	36	J6-3	Tx1 422-
12	J6-24	Rx1 422+	37	J6-23	Rx1 422-
13	J7-5	Tx1 422+	38	J7-3	Tx1 422-
14	J7-24	Rx1 422+	39	J7-23	Rx1 422-
15	J8-5	Tx1 422+	40	J8-3	Tx1 422-
16	J8-24	Rx1 422+	41	J8-23	Rx1 422-
17	J9-5	Tx1 422+	42	J9-3	Tx1 422-
18	J9-24	Rx1 422+	43	J9-23	Rx1 422-
19	J10-5	Tx1 422+	44	J10-3	Tx1 422-
20	J10-24	Rx1 422+	45	J10-23	Rx1 422-
21		Unused	46		Unused
22		Unused	47		Unused
23		Unused	48		Unused
24		Unused	49		Unused
25		Unused	50		Unused

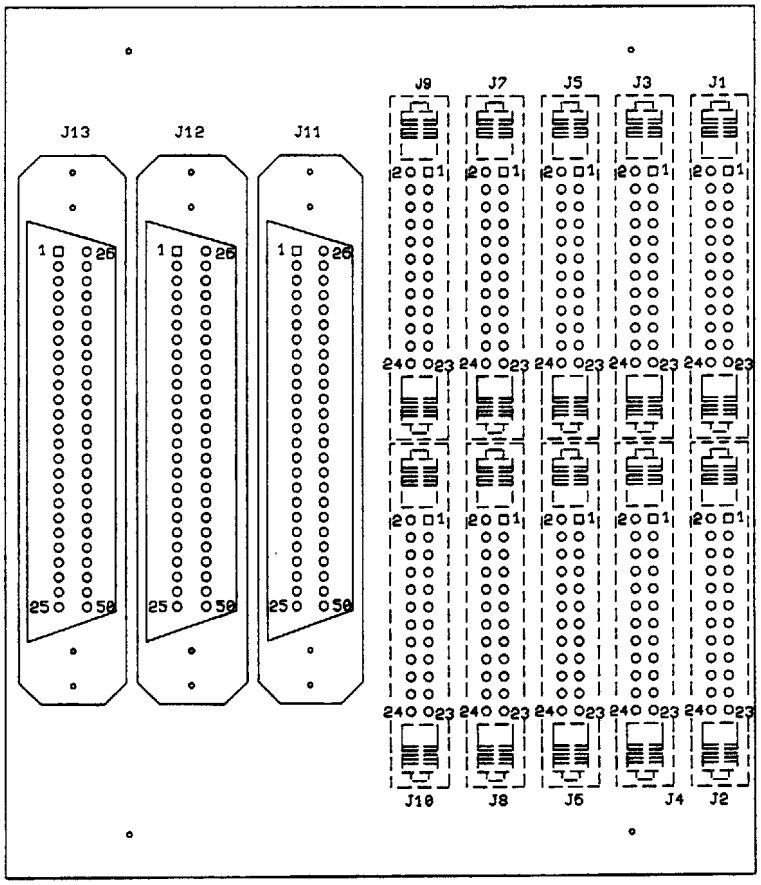
J12 - for CRT Consoles					
1	J1-9	Tx0 422+	26	J1-7	Tx0 422-
2	J1-21	Rx0 422+	27	J1-22	Rx0 422-
3	J2-9	Tx0 422+	28	J2-7	Tx0 422-
4	J2-21	Rx0 422+	29	J2-22	Rx0 422-
5	J3-9	Tx0 422+	30	J3-7	Tx0 422-
6	J3-21	Rx0 422+	31	J3-22	Rx0 422-
7	J4-9	Tx0 422+	32	J4-7	Tx0 422-
8	J4-21	Rx0 422+	33	J4-22	Rx0 422-
9	J5-9	Tx0 422+	34	J5-7	Tx0 422-
10	J5-21	Rx0 422+	35	J5-22	Rx0 422-
11	J6-9	Tx0 422+	36	J6-7	Tx0 422-
12	J6-21	Rx0 422+	37	J6-22	Rx0 422-
13	J7-9	Tx0 422+	38	J7-7	Tx0 422-
14	J7-21	Rx0 422+	39	J7-22	Rx0 422-
15	J8-9	Tx0 422+	40	J8-7	Tx0 422-
16	J8-21	Rx0 422+	41	J8-22	Rx0 422-
17	J9-9	Tx0 422+	42	J9-7	Tx0 422-
18	J9-21	Rx0 422+	43	J9-22	Rx0 422-
19	J10-9	Tx0 422+	44	J10-7	Tx0 422-
20	J10-21	Rx0 422+	45	J10-22	Rx0 422-
21		Unused	46		Unused
22		Unused	47		Unused
23		Unused	48		Unused
24		Unused	49		Unused
25		Unused	50		Unused

J13 - for Uplinks					
1	J1-15	Tx0 232	26	J1-11	Gnd
2	J1-22	Rx0 422-	27	J1-21	Rx0 422+
3	J2-15	Tx0 232	28	J2-11	Gnd
4	J2-22	Rx0 422-	29	J2-21	Rx0 422+
5	J3-15	Tx0 232	30	J3-11	Gnd
6	J3-22	Rx0 422-	31	J3-21	Rx0 422+
7	J4-15	Tx0 232	32	J4-11	Gnd
8	J4-22	Rx0 422-	33	J4-21	Rx0 422+
9	J5-15	Tx0 232	34	J5-11	Gnd
10	J5-22	Rx0 422-	35	J5-21	Rx0 422+
11	J6-15	Tx0 232	36	J6-11	Gnd
12	J6-22	Rx0 422-	37	J6-21	Rx0 422+
13	J7-15	Tx0 232	38	J7-11	Gnd
14	J7-22	Rx0 422-	39	J7-21	Rx0 422+
15	J8-15	Tx0 232	40	J8-11	Gnd
16	J8-22	Rx0 422-	41	J8-21	Rx0 422+
17	J9-15	Tx0 232	42	J9-11	Gnd
18	J9-22	Rx0 422-	43	J9-21	Rx0 422+
19	J10-15	Tx0 232	44	J10-11	Gnd
20	J10-22	Rx0 422-	45	J10-21	Rx0 422+
21		Unused	46		Unused
22		Unused	47		Unused
23		Unused	48		Unused
24		Unused	49		Unused
25		Unused	50		Unused

ERICSSON

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

Printed in U.S.A.

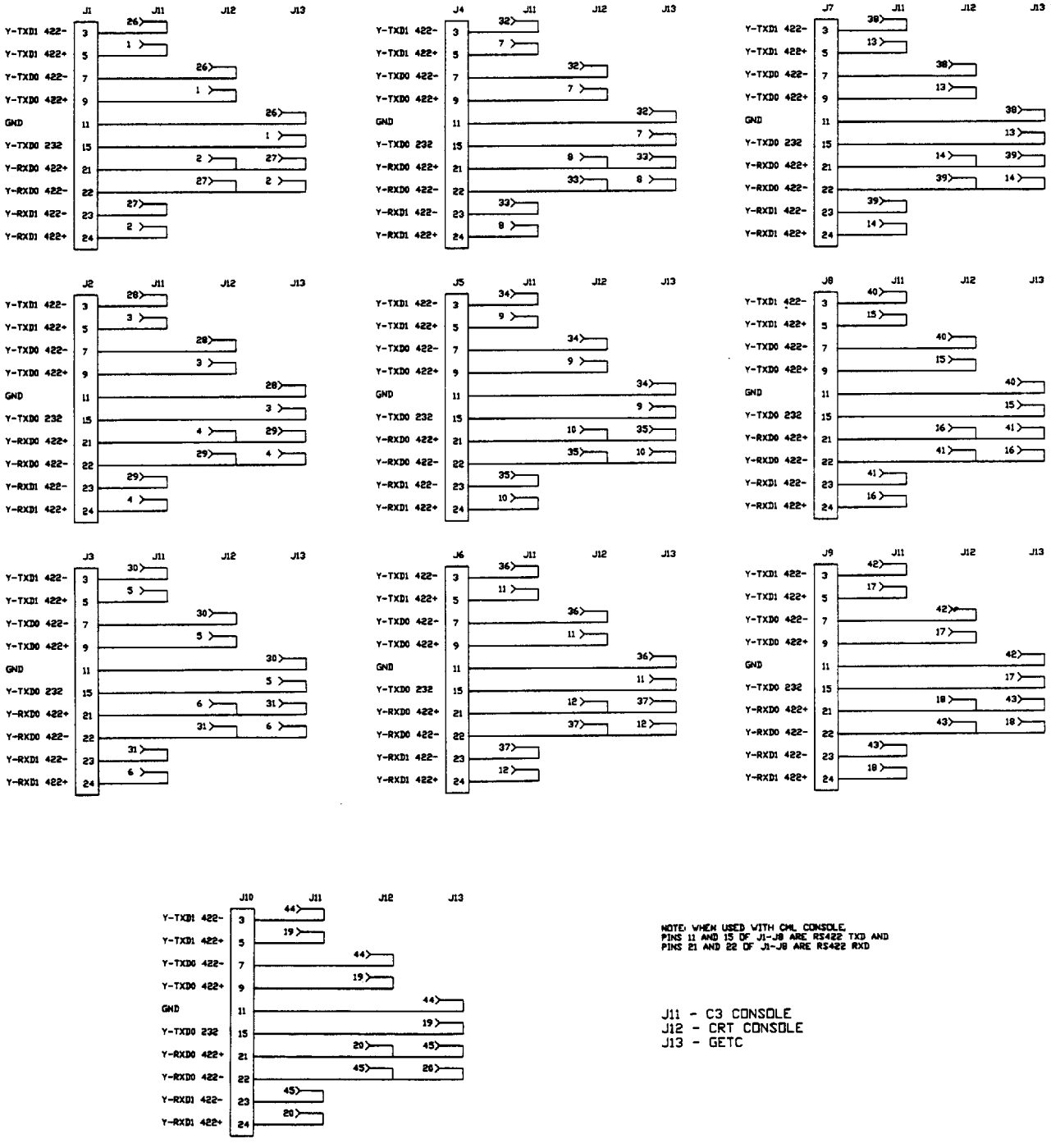


(1) NOTES:
1. ASSEMBLE J11–J13 ON NEAR SIDE OF PWB
2. ASSEMBLE J1–J10 AND LATCH ON FAR SIDE OF PWB

MATERIAL LIST				
ITEM	EGE PART NO.	VENDOR PART NO. (OR EQUIVALENT)	DESCRIPTION	QTY
J11–J13		AMP 554753–1	50 PIN CHAMP CONN	3
J1–J10		AMP 499582–5	24 PIN HEADER	10
LATCH		AMP 102320–1	LATCH	20

(19D903525, Rev. 0)

DATA CONCENTRATOR CARD 19D903525P1



NOTE: WHEN USED WITH CHL CONSOLE, PINS 11 AND 15 OF J1-J8 ARE RS422 TXD AND PINS 21 AND 22 OF J1-J8 ARE RS422 RXD

J11 - C3 CONSOLE
J12 - CRT CONSOLE
J13 - GETC

DATA CONCENTRATOR CARD 19D903525P1

(19D903593, Sh.1, Rev.1)