MAINTENANCE MANUAL

POWER SENSOR INTERFACE MODULE
19C852632G1

TABLE OF CONTENTS

SPECIFICATIONS

FUNCTIONS:

CONNECTIONS:

External Connections to Power Sensors:

Transmitters #1 through # 12	J1	25-pair female Telco connector
Transmitters #10 through # 20	J2	25-pair female Telco connector
Antennas #1 and # 2	J9	DB-9 female connector

Internal Connections to PMU:

Transmitters #1 through #4	J3	DB-9 female connector
Transmitters #5 through #8	J4	DB-9 female connector
Transmitters #9 through #12	J5	DB-9 female connector
Transmitters #13 through #16	J6	DB-9 female connector
Transmitters #17 through #20	J7	DB-9 female connector
Antenna #1 and #2	J8	DB-9 female connector

ERICSSON

DESCRIPTION

The 19C852632G1 Power Sensor Interface Module is used as a connection point between cables outside and cables inside the EDACS equipment cabinet containing the Power Monitor Unit. This module provides the connection points for transmitter and antenna power sensor circuits that connect the power sensors to the DB8860-based PMU.

This module has the capacity to connect up to 20 transmitter power sensors and up to two antenna power sensors to the Power Monitor Unit. Each transmitter power sensor requires one 2-wire power sensor circuit for the forward power measurement. Each antenna power sensor requires two 2-wire power sensor circuits; one for the forward power measurement and one for the reflected power measurement.

This module is intended to be mounted in the upper EDACS Interface Panel in the upper rear of the Site Controller cabinet, and is equipped with two 19C852379G1 Power Sensor Termination Boards that are used to ground unused transmitter power sensor circuits.

CIRCUIT ANALYSIS

TRANSMITTER SENSOR CIRCUITS

This module provides connection points for one 2-wire power sensor circuit for each of 20 transmitters. The outside connections for these circuits are divided between two connectors (each intended for a group of EDACS Repeater cabinets). The power sensor circuits for transmitters #1 through #12 connect to J1, and and the power sensor circuits for transmitters #11 through #20 connect to J2. Note that the power sensor circuits for transmitters # 11 and #12 connect to both J1 and J2. This allows transmitters #11 and #12 to be in either group.

The inside connections for these circuits are divided between five connectors (each intended for one input port of the Power Monitor Unit). The power sensor circuits for transmitters #1 through #4 connect to J3, for transmitters #5 through #8 connect to J4, for transmitters #9 through #12 connect to J5, for transmitters #13 through #16 connect to J6, and for transmitters #17 through #20 connect to J7.

ANTENNA SENSOR CIRCUITS

This module provides a connection point for two 2-wire power sensor circuits for each of 2 antennas. The outside connections for these circuits connect to J9. The inside connections connect to J8.

POWER SENSOR TERMINATION BOARDS

This module comes equipped with two 19C852379G1 Power Sensor Termination Boards plugged into J1 and J2. Each board contains 12 jumpers used to ground unused transmitter power sensor circuits. If an outside cable is plugged into either J1 or J2, the displaced Power Sensor Termination Board must be moved to the interface module at the end of this cable, or at the end of the daisy chain of cables (until an empty connector is found). If no daisy chain cable is plugged into J1 or J2, the Power Sensor Termination Board must remain plugged into J1 or J2. The jumpers must be removed from those power sensor circuits that are connected to power sensors.

Note that the power sensor circuits for transmitters #11 and #12 each have two jumpers - one on each Power Sensor Termination Board. Therefore, if either of these power sensor circuits is connected to a power sensor, two jumpers (one on each board) must be removed.

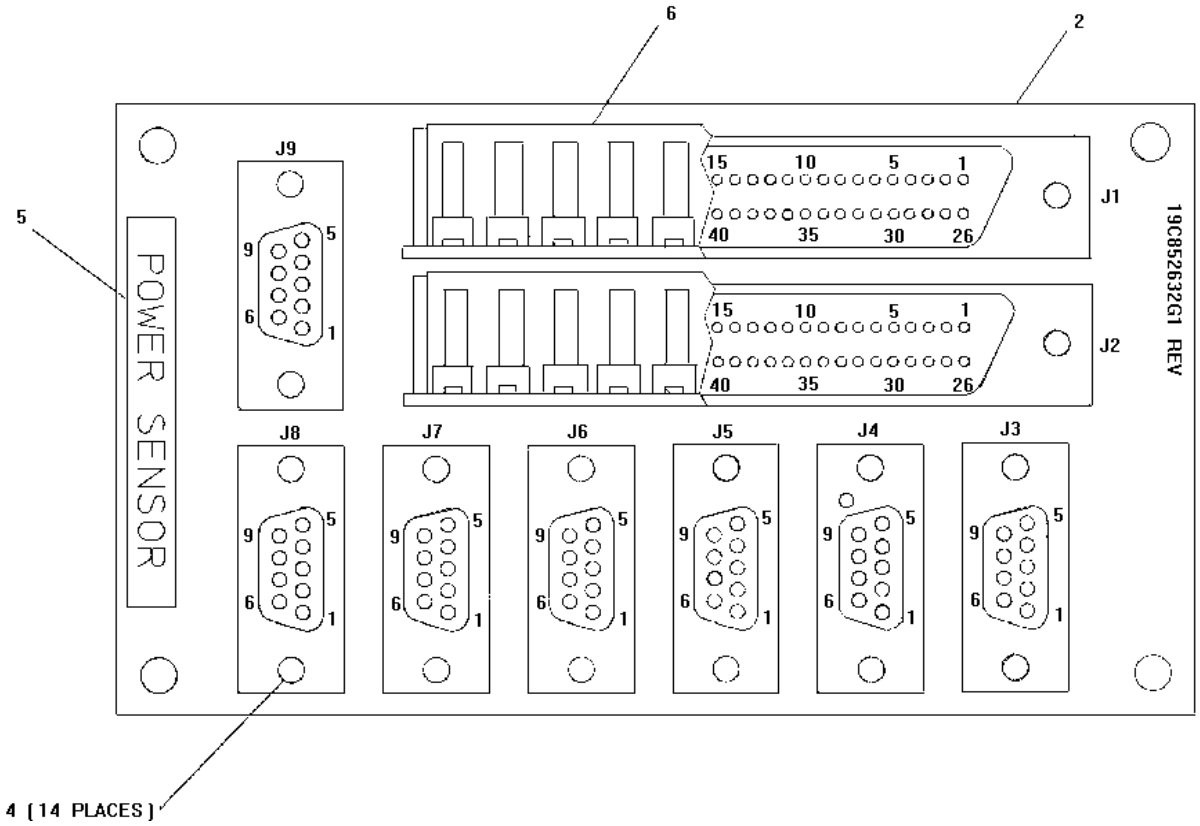
Ericsson Inc.
Private Radio Systems
Mountain View Road
Lynchburg, Virginia 24502
1-800-528-7711 (Outside USA, 804-528-7711)

Printed in U.S.A.

POWER SENSOR INTERFACE MODULE
(19C852632G1)

SYMBOL	PART NUMBER	DESCRIPTION
		– – – – – JACKS – – – – –
J1 and J2	19B800935P14	Jack, 50-Pin, Female (25-Pair Telco with Bail Locks)
J3 thru J9	19B209727P52	Jack, 9-Pin, Female (DB-9 with Screw Locks)
		– – – MISCELLANEOUS – – –
2	19C852633P1	Printed Wire Board
4	N80P9004B6	Screw, Machine, Pan Head, Steel, #4-40 x 1/4
6	19C852379G1	Power Sensor Termination Board
7	19A702381P506	Screw, Thread-forming, Pan Head, M-3.5

* COMPONENTS ADDED, DELETED, OR CHANGED BY PRODUCTION CHANGES



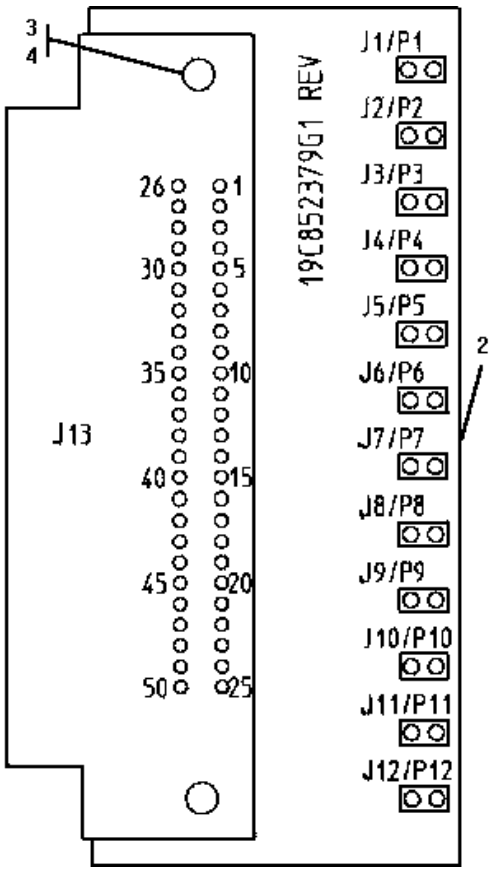
POWER SENSOR INTERFACE MODULE

(19C852632, Rev. 1)

POWER SENSOR TERMINATION BOARD
(19C852379G1)

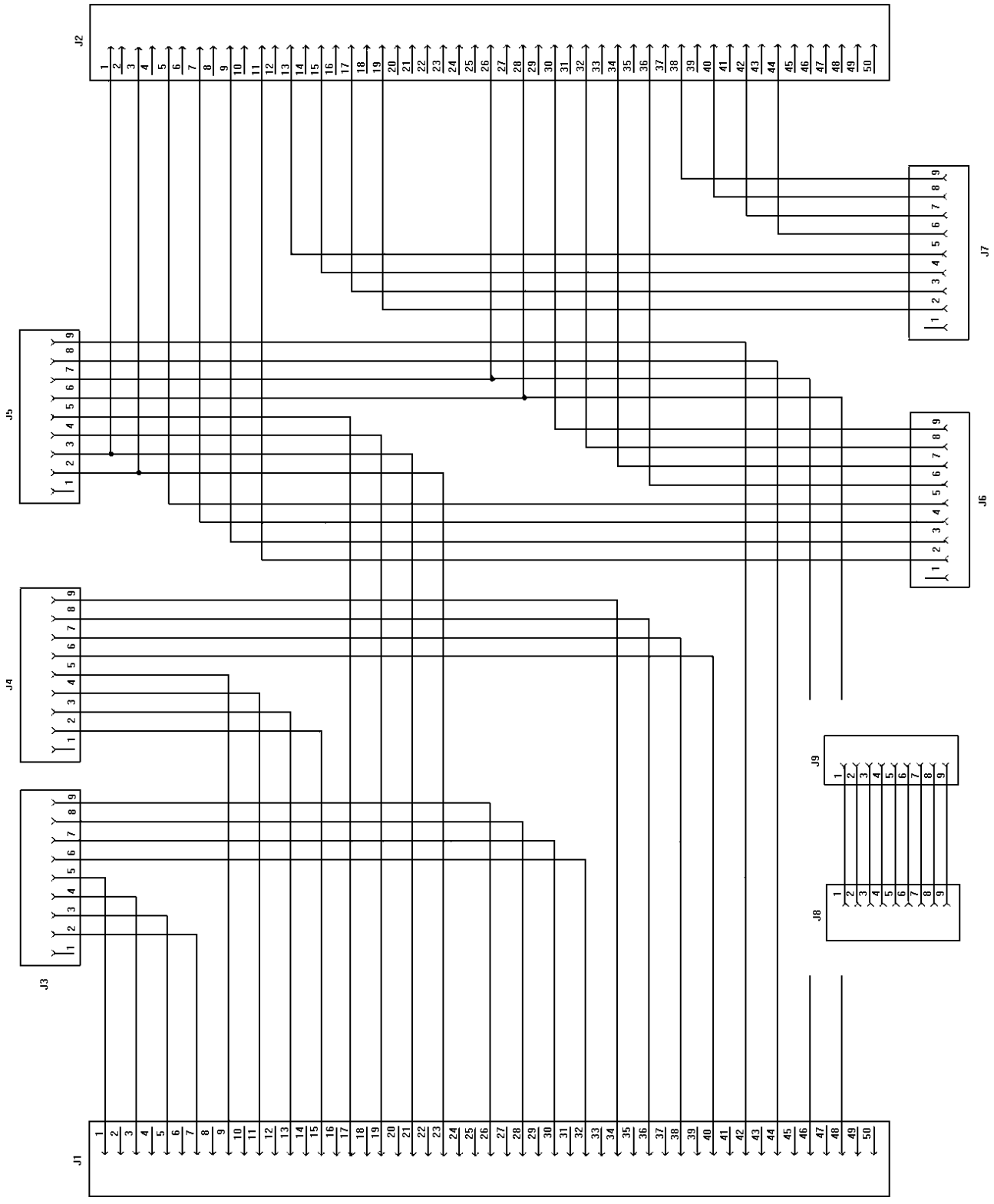
SYMBOL	PART NUMBER	DESCRIPTION
		– – – JACKS & PLUGS – – –
J1 thru J12	19A704852P1	Jack, 2-Pin PW Board
J13	19B800935P11	Plug, 50-Pin PWB Right Angle
P1 thru P12	19A702104P2	Plug, 2-Pin Jumper
		– – – MISCELLANEOUS – – –
2	19C852378P1	Printed Wire Board
3	N80P9007B6	Screw, Machine, Pan Head, Steel
4	N210P5B6	Nut, Machine, Hex, Steel

* COMPONENTS ADDED, DELETED, OR CHANGED BY PRODUCTION CHANGES



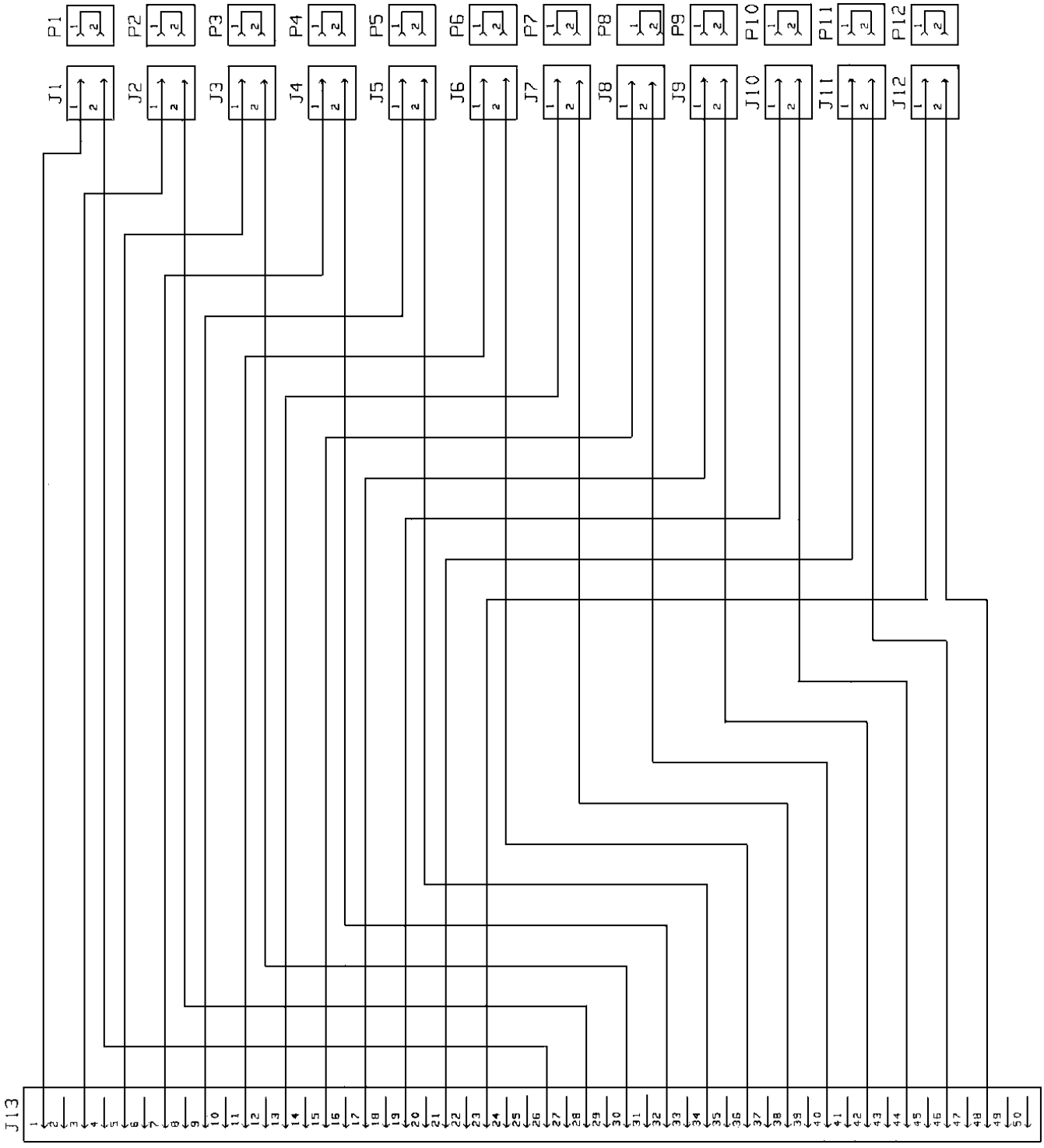
POWER SENSOR TERMINATION BOARD

(19C852379, Rev. 0)



POWER SENSOR INTERFACE MODULE

(188D6412, Rev. 1)



POWER SENSOR TERMINATION BOARD

(19D904661, Rev. 0)