

Maintenance Manual

GPS EDACS® STATION INTERFACE PANEL

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NOTICE!

This manual covers Ericsson and General Electric products manufactured and sold by Ericsson Inc.

NOTICE!

Repairs to this equipment should be made only by an authorized service technician or facility designated by the supplier. Any repairs, alterations or substitution of recommended parts made by the user to this equipment not approved by the manufacturer could void the user's authority to operate the equipment in addition to the manufacturer's warranty.

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SPECIFICATIONS*

DIMENSIONS

19" X 3RU

MOUNTING

Fits Standard 19 inch rack
Uses standard EIA mounting

MODULES

Provides mounting for four (4) parallel interface modules as follows:
1 - Programming/Diagnostic Module 19C852204G1
1 - BSL/FSL Module 19C852226G1
2 - Mapping Module ROA 117 2259

DESCRIPTION

The **EDACS® GPS** (Global Positioning System) Simulcast Interface Panel mounts in the top position on the back side of the transmit site MASTR III station rack (Refer to Rear View Of Cabinet). This panel allows quick and easy interconnection of audio and control functions in an EDACS GPS Simulcast Communication System. This Interface Panel provides the ability to couple audio and control functions of multiple stations on single 25 pair cables. The Interface Panel can connect up to three (3) such cables plus one serial cable. This panel also provides all intra-cabinet wiring to common connector panels which is covered in other publications.

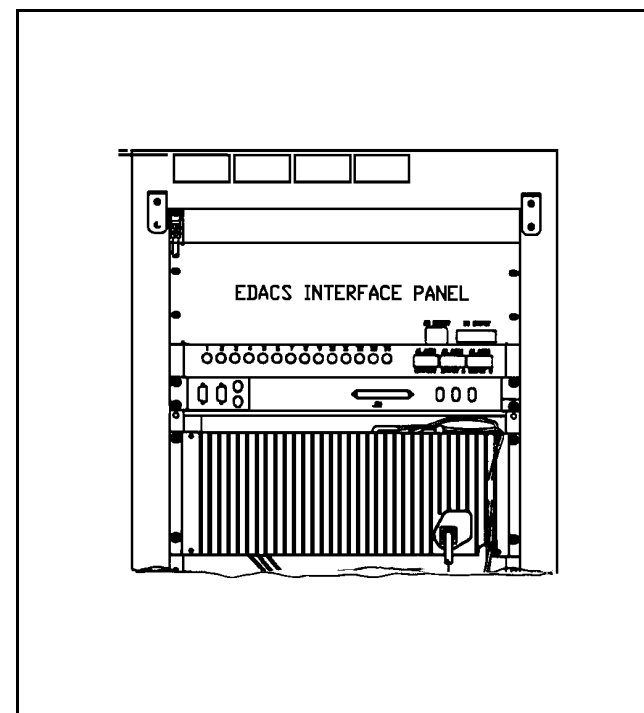
This Interface panel consists of four modules: Programming/Diagnostic Module 19C852204G1, BSL/FSL Module 19C852226G1 and two Mapping Modules ROA 117 2259. These modules are mounted on common frame assembly 19D903881 (Refer to the Assembly Diagram).

PROGRAMMING/DIAGNOSTIC MODULE 19C852204G1

The generic Interface Module 19C852204G1 is used in the GPS Simulcast Communication System as a Programming/Diagnostic module. This module is used to input data to the MASTR III station when system programming is taking place. It is also used to read data from the MASTR III station when used in a diagnostic mode. The Programming/Diagnostic Module connects through cable RPM1132492 to connector J108 on the MASTR III Interface Board where it picks up **PGM TXD**, **PC PGM RXD** and **GND** (Refer to Interconnection Diagram 193D1248). A single Interface Module can collect up to twelve (12) station functions on a single 25 pair common cable (For a circuit analysis refer to Maintenance Manual LBI-38813).

BSL/FSL MODULE 19C852226G1

Generic Interface Module 19C852226G1 is used in the GPS Simulcast Communication System as a Backup Serial Line (BSL)/Frame Sync Line (FSL) Module. This module is used to establish local bus communications for BSL and FSL signals between the Simulcast Station GETC Logic Boards throughout the transmit site. The Control Channel Monitor is also connected to this bus, supplying control channel status messages to the station GETC's. The Programming/Diagnostic Module connects through cable 19D903880P2X and cable 19C336863G2 to connectors J8 and J19 on the GETC Logic Board (refer to Interconnection Diagram 193D1248). This module has 24 parallel connected modular 6 pin jacks. With one jack used as an input the signals can be routed to 23 other jacks. (For a circuit analysis refer to maintenance manual LBI-38818).



Rear View of Cabinet

MAPPING MODULE ROA 117 2259

This Station Mapping Module is used in the GPS Simulcast Communication System to map (route) a pair of stations to one 25 pair Telco connector (J9) as follows:

J1/J2 - TXV, RXV, PTT, A/D, TXD, RXD, TXC, RXC, 150 D, ALM and Bypass (from GETC Interface).

J3/J4 - Reset and Test Call (From GETC Logic Board).

J5/J6 - PA Power (From PA "sniffer").

through cables RPM 113 2487 and 19B803302 to connectors J3/J4 on the Mapping Module. Transmit and Receive Audio from connector J101 on the MASTR III Interface Board connects to connectors J7/J8 on the Mapping Module through cable RPM 113 2486. Power from connector J2 on the Power Amplifier connects through cable 19C337130, Power Sensor 19C336861 and cable 19D903880P3X to connector J5/J6 on the Mapping Module.

In addition, connectors J7/J8 routes Station transmit and receive audio to the GETC Interface through connectors J1/J2 (refer to Maintenance Manual AE/LZB 119 1871).

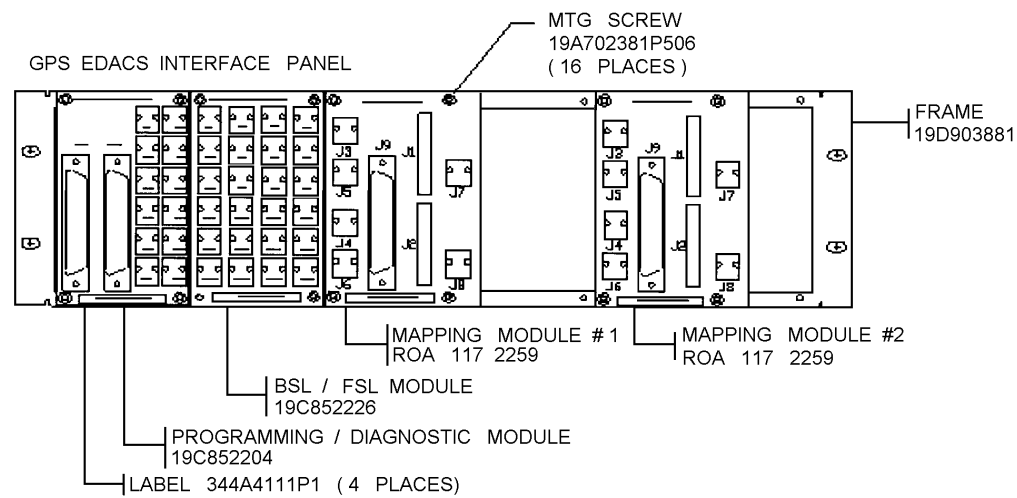
A 13 pair twisted flat cable (RPM1132488) connects to J1/J2 on the mapping module. The other end of this cable connects through GETC Protector ROA 117 2275, 26 conductor ribbon cable RPM 113 2493 and GETC Interface Module ROA 117 2269 to connector J3 on the GETC Logic Board (Refer to Interconnection Diagram 193D1248). Reset and Test Call signals connect from the GETC Logic Board

PARTS LIST

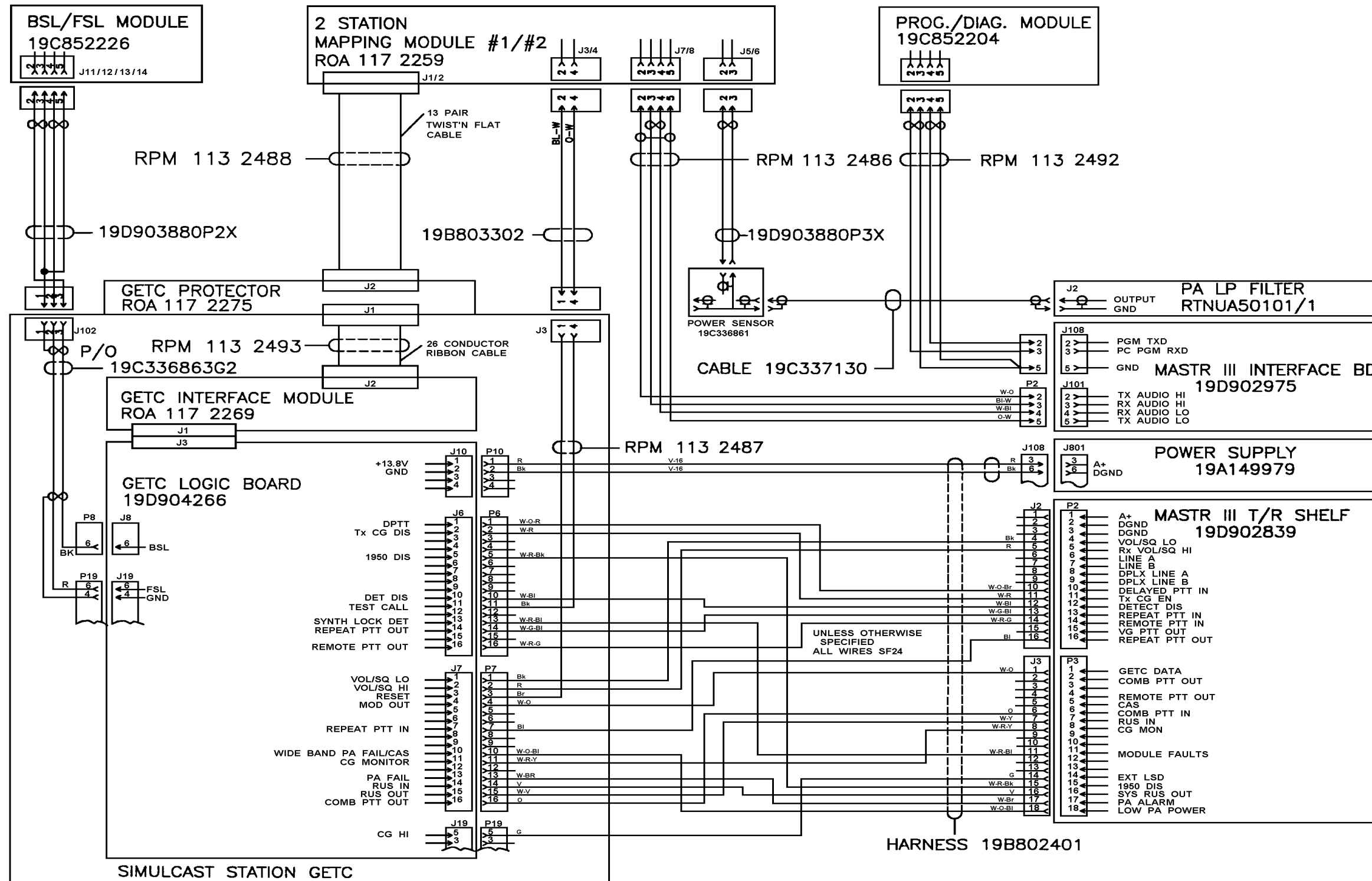
GPS EDACS INTERFACE PANEL

SYMBOL	PART NUMBER	DESCRIPTION
	19D903881	Frame
	19A702381P506	Mounting Screw
	344A4111P1	Label
	19C852204G1	Programming/ Diagnostic Module
	19C852226G1	BSL/FSL Module
	ROA 117 2259	Mapping Module

ASSEMBLY DIAGRAM



(Taken from 19D902845, Sh. 28, Rev. 4A)



GPS SIMULCAST STATION

(193D1248, Rev. 1A)