Maintenance Manual

GPS SIMULCAST
TRANSMIT RACK INTERFACE
PANEL AND MULTIPORT
SERIAL CONTROLLERS

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SPECIFICATIONS

DIMENSIONS	19” X 3RU
MOUNTING	Fits Standard 19 inch rack Uses standard EIA mounting
MODULES	Provides mounting for four (3) parallel interface modules and two (2) MultiPort Serial Controllers as follows: 3 - Programming/Diagnostic Module 19C852204G1 1 - Bypass Mapping Module ROA 117 2277P1A 2 - RocketPort 16 Modules mounted on separate frame assembly SXA 120 4268

NOTE

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.

DESCRIPTION

The **GPS** Simulcast Transmit Rack Interface Panel mounts in the middle position on the back side of the transmit site Simulcast equipment rack (Refer to Rear View Of Cabinet for the frame and modules M1-M5). 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, and all intra-cabinet wiring to common connector panels covered in other publications

This Interface panel consists of Frame Assembly 19D903881P1 and three (3) modules:

- Programming/Diagnostic Modules, M1 & M2 (19C852204G1)
- Bypass Mapping Module M3 (ROA 117 2259).

These modules mount on common frame assembly 19D90388P1 *(Refer to the Assembly Diagram)*.

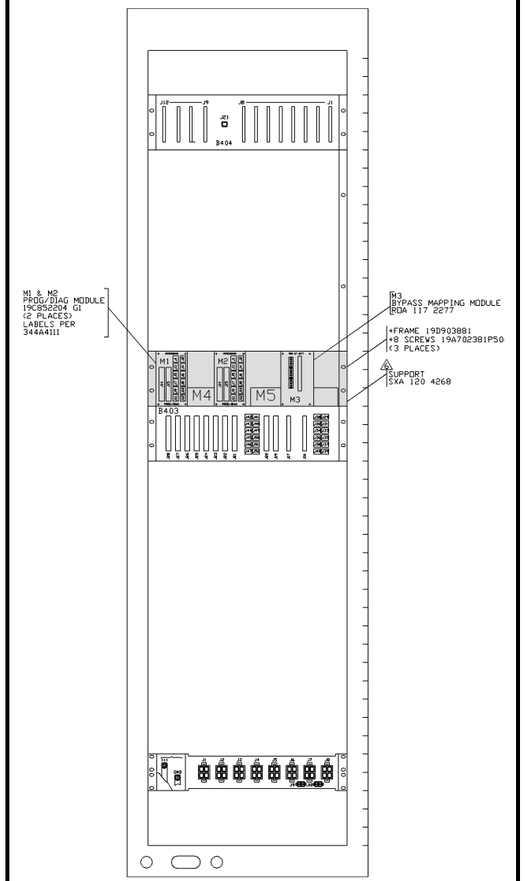
Two RocketPort 16 MultiPort Serial Controllers M4 & M5 mount on separate mounting frame SXA 120 4268. This mounting frame mounts direct behind the interface panel.

PROGRAMMING/DIAGNOSTIC MODULE (19C852204G1)

Generic Interface Modules M1 & M2 (19C852204G1) are used in the GPS Simulcast Transmit Rack Interface panel as Programming/Diagnostic modules. These modules are used to input data from the MASTR III station to the Test and Alarm Computer through RocketPort Modules M4 & M5. The Test and Alarm Computer can, in reverse, set station perimeters in the MASTR III station. *(For a circuit analysis refer to Maintenance Manual LBI-38813.)*

BYPASS MAPPING MODULE (ROA 117 2277)

Bypass Mapping Module M3 (ROA 117 2277) is used in the GPS Simulcast Communication System to establish a bypass buss and provides a simplified method of establishing and testing split system operation. *(Refer to Maintenance Manual AE/LZB 119 1883 R1A.)*



(Taken from 193D1257, Sh. 1, Rev.1)

Rear View of Simulcast Transmit Rack Cabinet

MULTIPORT SERIAL CONTROLLER

The RocketPort 16 Module is a 16 port serial controller. Two RocketPort 16 modules (M4 & M5) are used on the GPS Simulcast Interface Panel to provide an expansion to 32 communication ports for the Test and Alarm Computer *(Refer to the Hardware Reference Card for the RocketPort 16 Module)*. The Test and Alarm Computer only has two communication ports, COM1 and COM2. Cables connect these ports to the HOST connections on the RocketPort 16 modules. Each Test and Alarm Computer communication port is expanded to 16 for a total of 32 communication ports.

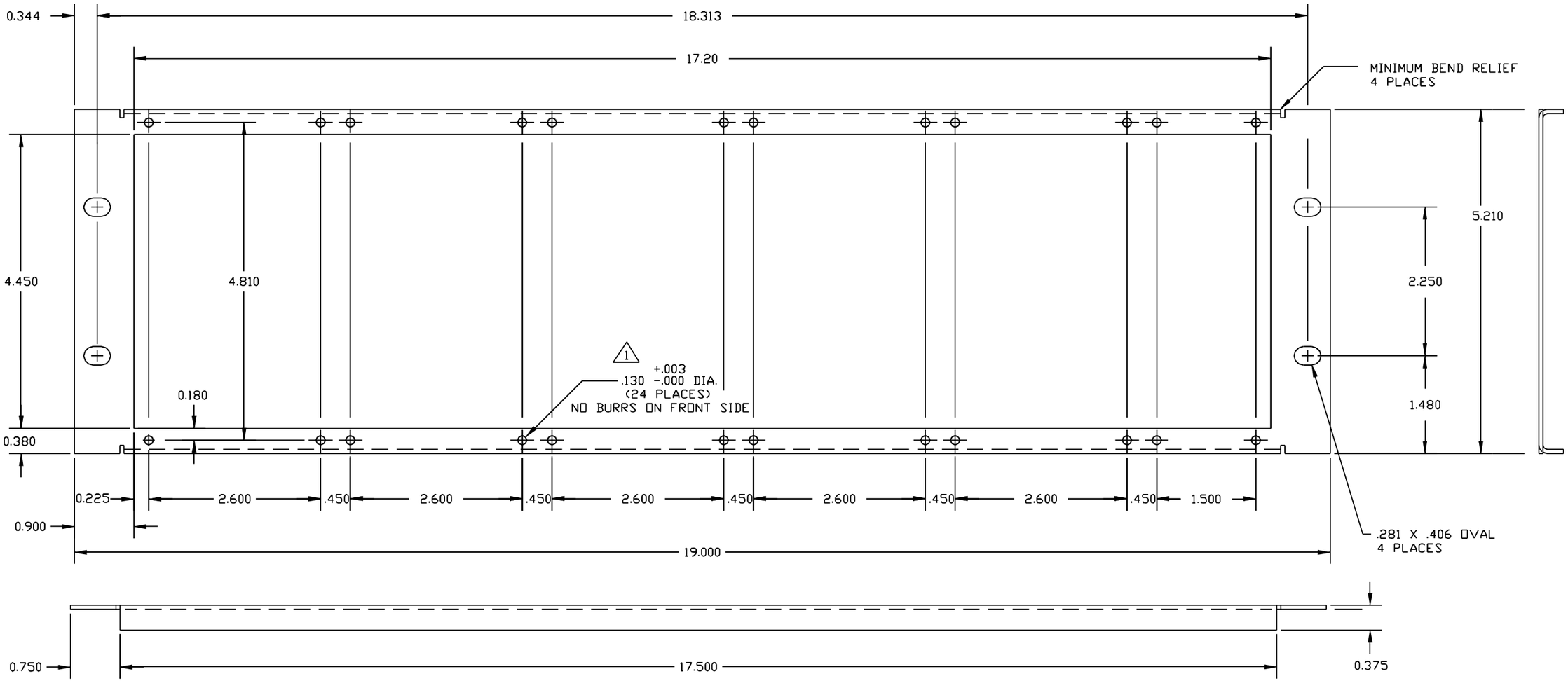
MODULE INTERCONNECTION

Twelve communication ports on each RocketPort 16 module connect through cables to Station Diag/Prog Mapping Modules M1 and M2 *(J1-J12)*. Refer to Interconnection Diagram 193D1243. Connector J14 on each Station Diag/Prog Mapping Module connects to Station Diag/Prog Modules *(CH1-12 & CH13-24)*. On RocketPort 16 Module #1 (M4) communication port #0 connects to connectors S5 CH1 and CH2 on the INTRAPLEX MUX. Port #1 connects through a cable to the REMOTE connector of the INTRAPLEX MUX. Communication port #2 connects through a cable to connector J3 on Test Radio T804. Communication port #3 connects by cable to the COM ports of GPS RCVR's A&B.

PARTS LIST

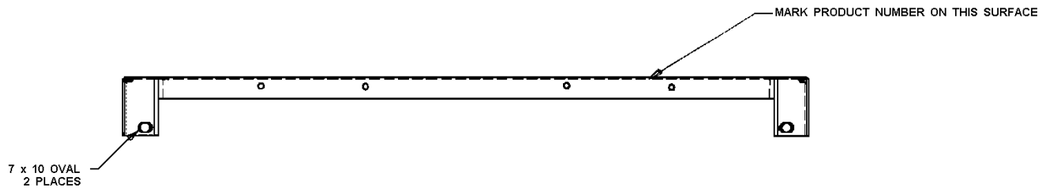
GPS EDACS INTERFACE PANEL

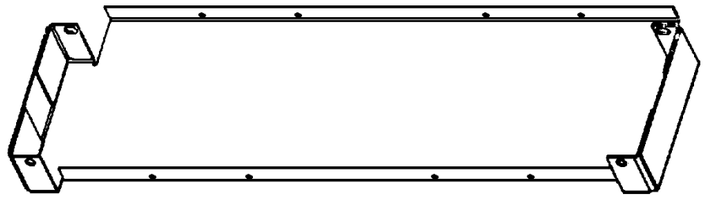
SYMBOL	PART NUMBER	DESCRIPTION
	19D903881P1	Frame
	19A702381P506	Mounting Screw
	344A4111P1	Label
M1 and M2	19C852204G1	Programming/Diagnostic Module
M3	ROA 117 2277	Bypass Mapping Module
M4 and M5	RocketPort 16	RocketPort MultiPort Serial Controller
	SXA 120 4268	RocketPort Module mounting frame

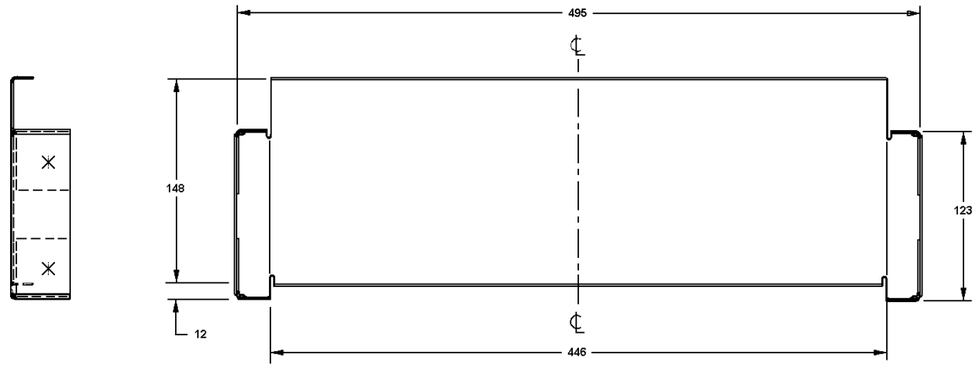


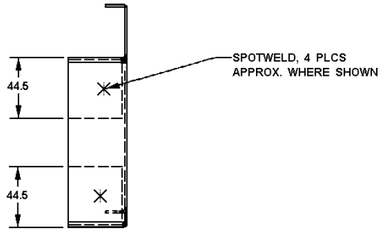
FRAME ASSEMBLY 19D903881P1

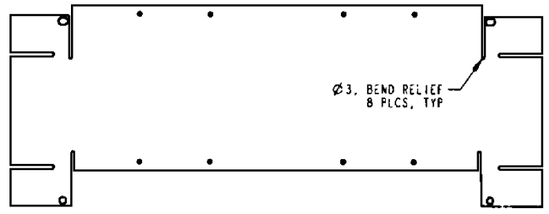
(19D903881, Sh. 1, Rev. 3A)



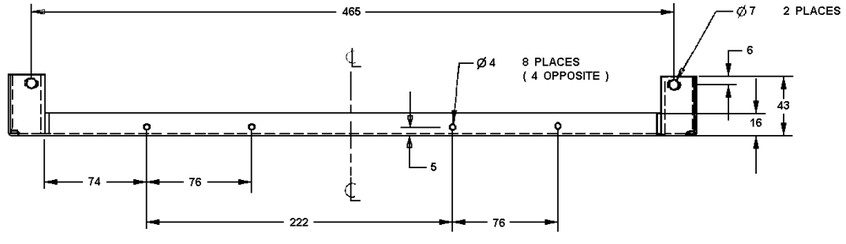








FLAT PATTERN
SCALE 0.333

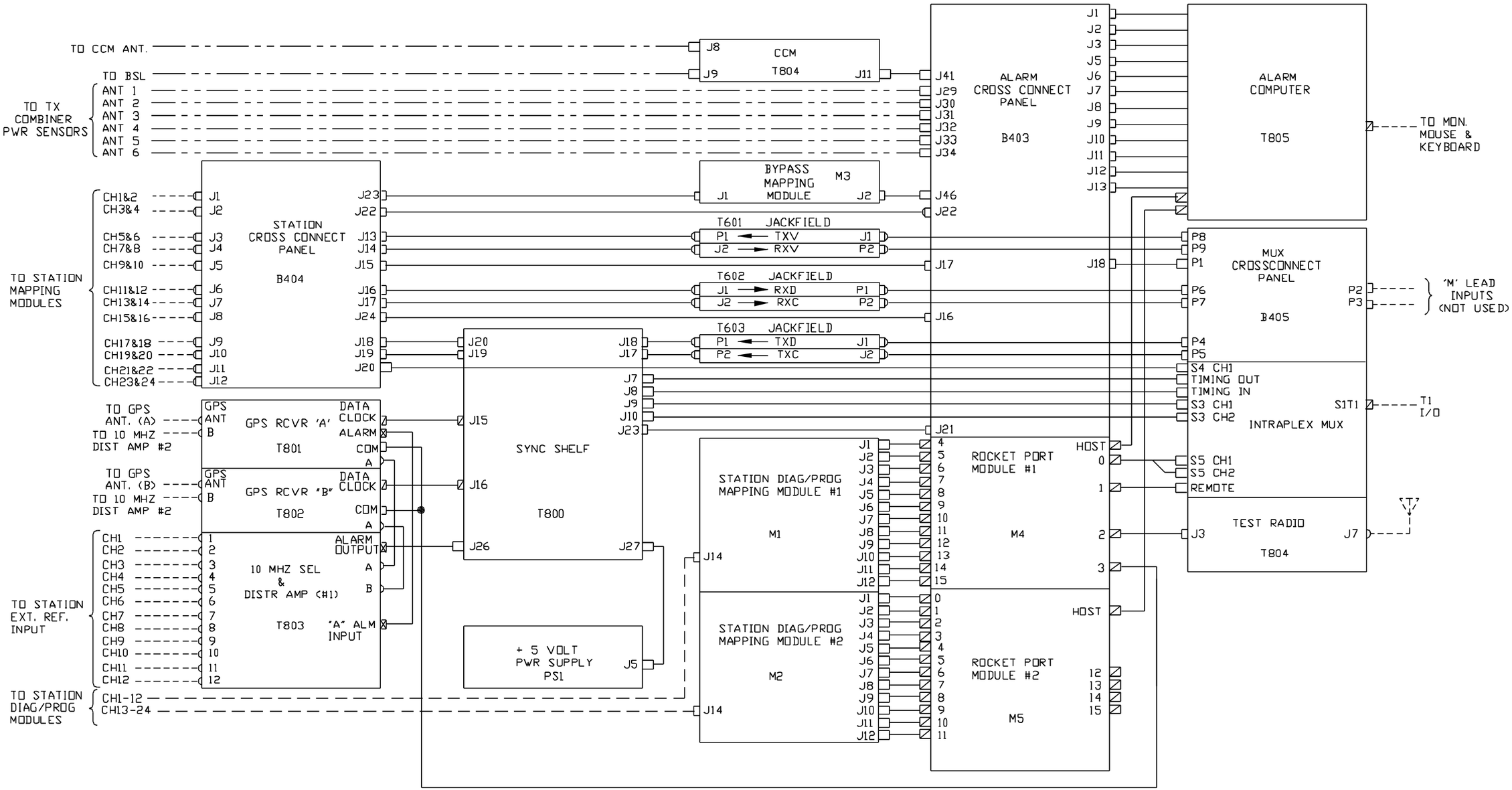


NOTES:
1. ALL DIMENSIONS IN MM.
2. BEND ON 1.5 RADIUS
3. PRODUCT AND PACKAGING TO BE MARKED WITH PRODUCT NUMBER AS SHOWN IN TABLE.

PRODUCT NUMBER	DESCRIPTION
SXA 120 4268	ROCKET PORT BRACKET

FRAME ASSEMBLY SXA 120 4268

(1038-SXA 120 4268, Rev. 1)



GPS SIMULCAST TRANSMIT SITE
SIMULCAST RACK

(193D1243, Rev. 1)