

Maintenance Manual

MASTR[®] III

**MULTIPLE RECEIVER
RF PACKAGE, UHF**

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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*

	UHF					
	<u>380-400</u>	<u>403-430</u>	<u>425-450</u>	<u>450-470</u>	<u>470-494</u>	<u>492-512</u>
FREQUENCY RANGE (MHz):	50	50	50	50	50	50
RF INPUT IMPEDANCE (Ω):	50	50	50	50	50	50
CHANNEL SPACING (kHz):	12.5/25	12.5/25	12.5/25	12.5/25	12.5/25	12.5/25
SENSITIVITY (dBm) EIA 12 dB SINAD:	-115	-116	-116	-116	-116	-116
(0.40 μV)	(0.40 μV)	(0.35 μV)	(0.35 μV)	(0.35 μV)	(0.35 μV)	(0.35 μV)
Threshold Squelch (dBm):	-118	-119	-119	-119	-119	-119
(0.28 μV)	(0.28 μV)	(0.25 μV)	(0.25 μV)	(0.25 μV)	(0.25 μV)	(0.25 μV)
SELECTIVITY EIA 2-Signal (dB)						
12.5 kHz:	-80	-80	-80	-80	-80	-80
25 kHz:	-90	-90	-90	-90	-90	-90
FREQUENCY STABILITY (%):	±0.0001	±0.0001	±0.0001	±0.0001	±0.0001	±0.0001
SIGNAL DISPLACEMENT						
BANDWIDTH (kHz):	±2	±2	±2	±2	±2	±2
INTERMODULATION (dB)						
12.5 kHz	-80	-80	-80	-80	-80	-80
25 kHz:	-85	-85	-85	-90	-90	-90
30 kHz:						
SPURIOUS & IMAGE REJECTION (dB):	-100	-100	-100	-100	-100	-100
FREQUENCY SPREAD						
Full Specs. (MHz):	2.0	2.0	2.0	2.0	2.0	2.0
3 dB Degradation in Sensitivity (MHz):	3.0	3.0	3.0	3.0	3.0	3.0

AUDIO RESPONSE (de-emphasis): Within +2 and -8 dB of 6 dB/octave (@ Local Speaker), 300 to 3000 Hz per EIA.
 Within +1 and -3 dB of 6 dB/octave (@ Line Output), 300 to 3000 Hz per EIA.

AUDIO OUTPUT: 1 Watt at less than 3% distortion @ 1000 Hz, 25 kHz Channel

REGULATORY APPROVALS

The following equipment authorization numbers have been granted:

<u>COUNTRY</u>	<u>REGULATORY APPROVAL</u>
United States	FCC AXAER-161-A (425-450 MHz) AXAER-161-B (450-470 MHz)
Canada	DOC Pending

MODULE NUMBERS

TRANSMIT SYNTHESIZER

(450-470 MHz).....19D902780G3
(425-450 MHz).....19D902780G7
(403-425 MHz, 410-430 MHz)19D902780G6
(308-400 MHz).....19D902780G8
(470-494 MHz).....19D902780G9
(492-512 MHz).....19D902780G10

RECEIVE SYNTHESIZER

(450-470 MHz, 403-425 MHz,
410-430 MHz)19D902781G3
(425-450 MHz, 470-494 MHz)19D902781G7
(308-400 MHz).....19D902781G8
(492-512 MHz).....19D902781G10

RX FRONT END MODULE

(450-470 MHz).....19D902782G3
(425-450 MHz).....19D902782G7
(403-425 MHz).....19D902782G6
(410-430 MHz).....19D902782G11
(380-400 MHz).....19D902782G8
(470-494 MHz).....19D902782G9
(492-512 MHz).....19D902782G10

IF MODULE

.....19D902783G1
(470-494 MHz, 492-512 MHz)19D902783G7