

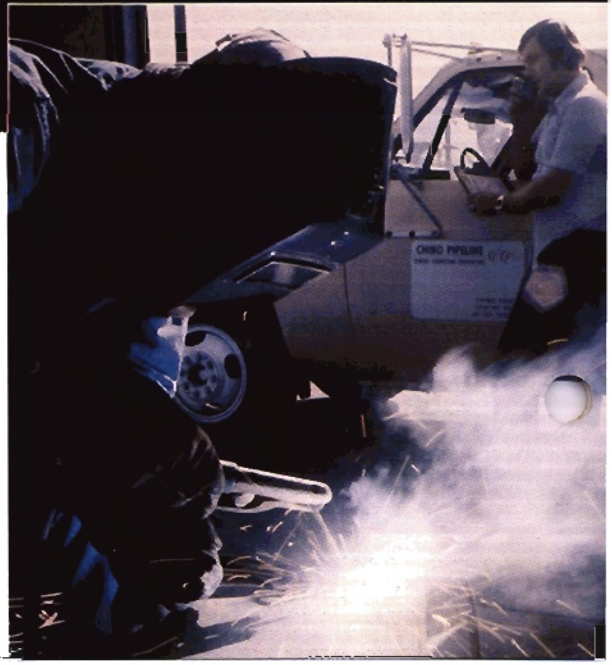
The exceptional performance you expect from the MASTR tradition



If your communications system calls for a high-technology, high-spec, high-performance mobile radio, look no further than the MASTR Executive II.

Sharing the same design concept plus many of the same components and features as GE's acclaimed MASTR II mobile, this extraordinary radio offers the best of both worlds. Top-of-the-line quality with a very attractive price. Result: truly exceptional performance, dependability and systems flexibility.

Check its features. Like outstanding RF output and audio quality. Extremely sensitive single-conversion receiver. Extensive integrated circuitry. Superb intermodulation protection. Broadband transmitters. Plug-in modules. Adjustable power output. And the list goes on.



Performance Characteristics

Output Powers—Up to 100w

Frequency Bands—LB, MB, VHF, UHF, 800 MHz

Number of Channels—Up to 8

Mounting — Trunk



Check its options. Like a choice of 5 control heads. Priority Search Lock Monitoring. Low-band and high-band noise blankers. Positive ground converter. Selective calling. And so much more. All designed to help your system grow as its needs grow.

Plus, the MASTR Executive II is also available in the new 800 MHz band. A capability that gives you new opportunities for increased air time with reduced channel crowding and interference. A capability that can help you maximize the efficiency and productivity of your entire system.

With the MASTR Executive II, in short, you get a time-tested, time-proved radio that can do so many things so well.

Note: Some models are shown with optional equipment

Quality begins with people



People like our product design, inspection, test and manufacturing personnel, who help maintain the industry's most stringent quality-control standards.

People like our sales and service representatives. Permanent residents of the area they serve. They're uniquely prepared to provide responsive, professional, on-the-spot service and support. When you need it.

People, in short, who will stay with you and work for you. That's what makes the General Electric team part of your team.

General Electric Company • Mobile Communications Division
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MASTR[®] Executive II

35, 60 & 100 WATTS

138 TO 174 MHz



"R" Series Radio with 3.2 Ohm Speaker, Controlled Magnetic Microphone and C-300 Control Unit.

PRODUCT FEATURES

- ★ Top Quality Specifications
- ★ Modular Construction
- ★ All Solid State
- ★ Silicon Transistors & ICs
- ★ Adjustable Power Output
- ★ Broad Band Power Amplifier
- ★ Single Conversion Receiver
- ★ Fixed Squelch
- ★ Meets USFS Vibration Spec's
- ★ "Snap-Lock" Crystal Modules
- ★ Plug-in Interconnections
- ★ Top Tuning & Metering

MAJOR BENEFITS

- For Optimum Performance
- For Increased Reliability
- Long Life Expectancy & Instant Operation
- Dependable High Temperature Service
- Match Levels to System Needs
- No Tuning Controls
- Minimizes Spurious Responses
- Rids Operator of Needless Control
- Built to Withstand Rough Use
- Solid Retention/Easy Removal
- Change Modules without Soldering
- Simplifies Routine Maintenance

★ Available without Accessories as an "RX" Combination.

OPTIONS AND ACCESSORIES

- | | |
|--|--|
| <input type="checkbox"/> Channel Guard | <input type="checkbox"/> Power Call/Siren |
| <input type="checkbox"/> Up to 8 Channels | <input type="checkbox"/> Handset |
| <input type="checkbox"/> Noise Blanker | <input type="checkbox"/> External Tone Devices |
| <input type="checkbox"/> UHS (Preamp) Receiver | <input type="checkbox"/> External Weatherproof Speaker |
| <input type="checkbox"/> Carrier Control Timer | <input type="checkbox"/> Weatherproof Box |
| <input type="checkbox"/> Positive Ground Converter | |



MASTR[®] Executive II MOBILE RADIOS

"R" SERIES

138-174 MHz

GENERAL

MODEL SERIES	RF POWER OUTPUT (Watts)	PA POWER INPUT (Watts)	BATTERY DRAIN (Amps)			FCC FILING NUMBER		APPLICABLE TO PART NUMBER (FCC Rules)	RECEIVER FCC MODEL NUMBER	
			Rx Standby	Unscquelched	Transmit	Up to 4 Freq.	Up to 8 Freq.			
RX/RT56	10 to 35	75	0.3 @ 13.8 VDC	1.4 @ 13.8 VDC	10 @ 13.6 VDC	KT-121-A	KT-121-B	21,81,89,91&93	ER-89-A	
RX/RT66	20 to 60	120			13.5 @ 13.6 VDC	KT-137-A	KT-137-B			21,89,91&93
RX/RT76	20 to 100	235*			28 @ 13.4 VDC	KT-139-A	KT-139-B			

*@ 180 watts input, power output is 70 watts.

SYSTEM VOLTAGE: 11-16 VDC, negative ground
 With optional converter: 11-16 VDC, positive ground

DUTY CYCLE (Intermittent): Receiver, 100% - Transmitter, 20% (EIA)
 (Continuous): Transmitter, 100% (EIA)

TEMPERATURE RANGE: -30°C to +60°C (-22°F to +140°F)
 (for full specified performance per EIA)

DIMENSIONS (HxWxD)

Mobile Unit
 RT56 & RT66: 3.9 x 13.5 x 13.4 inches; 9.9 x 34.3 x 34 cm.
 RT76: 3.9 x 13.5 x 17.8 inches; 9.9 x 34.3 x 45.2 cm.
 Control Head: 3.1 x 5.5 x 3.4 inches; 7.8 x 14 x 8.5 cm.
 Speaker: 5.1 x 5.5 x 3.5 inches; 13 x 14 x 8.9 cm.

WEIGHT (Average):

RT56 & RT66
 Unit and Accessories 29 lbs.; 13.2 kg.
 Shipping (Domestic Pack) 32 lbs.; 14.5 kg.

RT76
 Unit and Accessories 35 lbs.; 15.8 kg.
 Shipping (Domestic Pack) 38 lbs.; 17.1 kg.

ANTENNA: All stainless steel, 1/4 wave whip, Chrome & Lexan[®] base with 15 ft. (4.57 m) RG 58/U cable

MOUNTING: Hardware and cables supplied for trunk installation.

POWER/CONTROL CABLE: 19C303910G2 for 1 Freq. C-300 Control Unit.
 19C303910G4 for 4 Freq. C-300 Control Unit.
 19C311977G1 for 8 Freq. C-300 Control Unit.

HUMIDITY: 95% RH @ 50°C (122°F)

SHOCK & VIBRATION: Meets EIA & U. S. Forest Service Specifications

SPEAKER: 3.2 ohms

MICROPHONE: Controlled Magnetic

An "RX" combination is the same as an "RT" combination less accessories (control unit, control/power cable, speaker and microphone).

RECEIVER

Receiver Type	Basic	Preamp	Noise Blanker
RF Input Impedance:	50 ohms		
Channel Spacing:	25/30 kHz		
Sensitivity			
EIA 12 dB SINAD:	0.35 µv	0.175 µv	0.175 µv
20 dB Quieting:	0.50 µv	0.25 µv	0.25 µv
Noise Squelch:	4 dB SINAD		
Channel Guard Squelch:	6 dB SINAD		
Selectivity			
EIA 2-Signal (@ 30 kHz):	-90 dB		
(@ 25 kHz):	-85 dB		
Frequency Stability:	±0.0005% from -30°C to +60°C		
Modulation Acceptance:	±7.0 kHz		
Intermodulation:	-85 dB	-80 dB	-75 dB
Spurious and Image Rejection:	-100 dB	-95 dB	-95 dB
Audio Response:	Within +1 and -8 dB of 6 dB/octave de-emphasis, 300 to 3000 Hz per EIA.		
Audio Output:	5 watts at less than 5% distortion (@ 1000 Hz)		
Frequency Separation (max.) (Optional, 2 to 8 channels)			
Range (MHz)	138-155	150.8-174	
Full Specifications (MHz):	0.9	1.0	
3 dB Sensitivity Degrad. (MHz):	1.6	1.8	

TRANSMITTER

Model Series:	RT56	RT66	RT76
Rated Power Output:			
Intermittent Duty:	35 watts	60 watts	100 watts
Adjustable to: (For full performance per EIA)	10 watts	20 watts	20 watts
Continuous Duty @ 25°C:	35 watts	35 watts	55 watts
RF Output Impedance:	50 ohms		
Conducted Spurious and Harmonic Emission			
138-155 (MHz):	75 dB below carrier		
150.8-174 MHz:	80 dB below carrier		
Modulation Deviation:	0 to ±5 kHz (16F3 & 16F9)		
Frequency Stability:	±0.0005% from -30°C to +60°C		
FM Noise:	-70 dB		
Audio Response:	Within +1 and -3 dB of 6 dB/octave pre-emphasis, 300 to 3000 Hz per EIA.		
Audio Distortion:	Less than 3% (@ 1000 Hz)		
Frequency Separation (max.) (Optional, 2 to 8 channels)			
Range (MHz)	138-155	150.8-174	
Full Specifications (MHz):	1.8	2.0	
1 dB Power Output Degradation (MHz):	2.25	2.5	

MOBILE RADIO DEPARTMENT

WORLD HEADQUARTERS • LYNCHBURG, VIRGINIA 24502



MASTR[®] Executive II

35, 60 & 100 WATTS

138 to 174 MHz



"S" Series Radio with 8 Ohm Speaker, Transistorized Microphone & C-400 Control Units

PRODUCT FEATURES

- ★ Top Quality Specifications
- ★ Modular Construction
- ★ All Solid State
- ★ Silicon Transistors & ICs
- ★ Adjustable Power Output
- ★ Broad Band Power Amplifier
- ★ Single Conversion Receiver
- ★ Meets USFS Vibration Spec's
- ★ "Snap-Lock" Crystal Modules
- ★ Plug-in Interconnections
- ★ Top Tuning & Metering
- ★ Equipped for Alternate Control Units

MAJOR BENEFITS

- For Optimum Performance
- For Increased Reliability
- Long Life Expectancy & Instant Operation
- Dependable High Temperature Service
- Match Levels to System Needs
- No Tuning Controls
- Minimizes Spurious Responses
- Built to Withstand Rough Use
- Solid Retention/Easy Removal
- Change Modules without Soldering
- Simplifies Routine Maintenance
- Provides wide selection of functions for basic or sophisticated systems.

★ Available without Accessories as an "SX" Combination.

STANDARD OPTIONS AND ACCESSORIES

- | | |
|--|---|
| <input type="checkbox"/> Channel Guard | <input type="checkbox"/> Handset |
| <input type="checkbox"/> Up to 8 Channels | <input type="checkbox"/> External Tone Devices (including GE-STAR) |
| <input type="checkbox"/> Noise Blanker | <input type="checkbox"/> Weatherproof Control Unit, Microphone and/or Speaker |
| <input type="checkbox"/> Carrier Control Timer | <input type="checkbox"/> Weatherproof Enclosure |
| <input type="checkbox"/> Power Call/Siren | <input type="checkbox"/> Positive Ground Converter |
| <input type="checkbox"/> UHS (Preamp) Receiver | |
| <input type="checkbox"/> Dual Control | |

WITH C-500, 800 or 900 CONTROL UNIT

- PSLM
- Multifrequency CG Encoder (C-800 or C-900 only)
- Selective Call
- T90 Tone Decoders & Encoders
- Auxiliary Functions
- Channel Busy Indicator



MASTR[®] Executive II MOBILE RADIOS

"S" SERIES

138-174 MHz

GENERAL

Table with FCC FILING DATA (150-174 MHz) and BATTERY DRAIN (Amps) columns. Rows include Model Series (ST/SX56, ST/SX66, ST/SX76), RF Power Output Range, PA Power Input, Type Acceptance Number, Applicable to Part Number, Receiver FCC Model Number, Rx Standby, Unsquelled, and Transmit (Max.)

*@ 180 watts input, Power Output is 70 watts.

NOMINAL SYSTEM VOLTAGE: 13.8 VDC ±20%, negative ground

DUTY CYCLE (EIA): Intermittent: Receiver, 100% - Transmitter, 20% Continuous: Transmitter, 100%

DIMENSIONS (HxWxD) Mobile Unit ST56 & ST66: 3.9 x 13.5 x 13.4 inches; 9.9 x 34.3 x 34 cm. ST76: 3.9 x 13.5 x 17.8 inches; 9.9 x 34.3 x 45.2 cm. Control Head: 3.1 x 5.5 x 4.3 inches; 7.8 x 14 x 10.9 cm. Speaker: 5.1 x 5.5 x 3.5 inches; 13 x 14 x 8.9 cm.

WEIGHT (Average): ST56 & ST66 Unit and Accessories: 29 lbs.; 13.2 kg. Shipping (Domestic Pack): 32 lbs.; 14.5 kg. ST76 Unit and Accessories: 35 lbs.; 15.8 kg. Shipping (Domestic Pack): 38 lbs.; 17.1 kg.

ANTENNA: All stainless steel, 1/4 wave whip, Chrome & Lexan[®] base with 15 ft. (4.57 m.) RG 58/U cable.

MOUNTING: Hardware and cables supplied for trunk installation.

POWER/CONTROL CABLE: 19C321890G1 for C-400, 500, 700, 800 or 900 Control Unit.

Dimensions Control Cable: 20 ft. (6 m.) Power Cable: 26 ft. (7.8 m.) Ground Lead: 5 ft. (1.5 m.)

TEMPERATURE RANGE: -30°C to +60°C (-22°F to +140°F) for full specifications per EIA.

HUMIDITY: 95% RH @ 50°C (122°F)

SHOCK & VIBRATION: Meets EIA & U. S. Forest Service Specifications

SPEAKER: 8 ohms

MICROPHONE Transistorized: 0.09 Vrms Output @ 600 Ohms

An "SX" combination is the same as an "ST" combination less accessories (control/power cable, speaker and microphone).

RECEIVER

Receiver specifications table with columns: Receiver Type, Basic, Preamp, Noise Blanker. Rows include RF Input Impedance, Channel Spacing, Sensitivity, Selectivity, Frequency Stability, Modulation Acceptance, Intermodulation, Spurious and Image Rejection, Audio Response, Audio Output, and Frequency Separation.

TRANSMITTER

Transmitter specifications table with columns: Model Series, ST56, ST66, ST76. Rows include Rated Power Output, RF Output Impedance, Conducted Spurious and Harmonic Emission, Modulation Deviation, Frequency Stability, FM Noise, Audio Response, Audio Distortion, and Frequency Separation.

MOBILE RADIO DEPARTMENT GENERAL ELECTRIC COMPANY • LYNCHBURG, VIRGINIA 24502

