

# EAS 930A



## MULTI-MODULE RECEIVER

The EAS 930A Multi-Module Receiver System is a compact, professional quality receiver system for use with TFT's EAS 911 Emergency Alert System. The standard EAS 930A consists of a chassis that contains AM, FM and NOAA Weather Receiver Modules, power supply and monitoring speaker and provision for a fourth receiver installed by the user to provide up to four EAS audio sources for the EAS 911 Encoder/Decoder.

The EAS 930A is ideal for broadcast stations, cable headends, state or local emergency operations centers for monitoring emergency alert messages.

### FREQUENCY SYNTHESIZED RECEIVER MODULES

All receiver modules are frequency synthesized for easy digital tuning located behind removable front panel covers. A front panel LED in each receiver confirms proper RF and audio levels. A Local/Distance selection switch and RF signal level test point are also accessible from the front panel.

### INSTANTANEOUS AUDIO SWITCHING

Each receiver module has loop-through circuitry for hot standby configuration. It switches to the audio of the hot standby receiver when the primary station is off and switches back when the RF signal reappears. Relay contacts provide drop-out alarm.

### PROFESSIONAL QUALITY RECEIVER DESIGN

All receiver modules are designed to operate free of interference in their respective bands. A 600 ohm balanced audio output is capable of delivering excellent audio quality to the EAS 911. A Type F connector is used for an external antenna on the FM and Weather receiver, and a terminal block connector is provided for a factory supplied AM loop antenna. The FM and NOAA receivers may share a common outdoor antenna by using a factory supplied antenna signal splitter.

### BUILT-IN AUDIO MONITOR

The EAS 930A features a front panel selector switch and speaker to monitor the audio of any of the four receivers.

## FEATURES AND BENEFITS

- Compact, Professional Quality Receivers in 1-3/4" Rack Space
- AM, FM, NOAA, VHF and UHF Receivers, up to Four Receivers per Chassis in any combination
- Frequency-Synthesized, Digitally Tunable from the Front Panel
- Auto changeover to Hot Standby
- Balanced Audio Output
- VHF/UHF, 2-way Receiver Modules Available
- Monitor Speaker and Power Supply Built-in

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## SPECIFICATIONS

### FM RECEIVER MODULE

Frequency Range	88-108 MHz, digitally tunable in 100 kHz steps
Antenna	75Ω, Type F connector
Sensitivity	2μV for 20 dB quieting
Audio Output	Adjustable from rear panel, -10 dBm to +3 dBm, 600Ω balanced, 3-pin terminal block
T.H.D.	Less than 3% at 66.6% modulation

### AM RECEIVER MODULE

Frequency Range	540 kHz to 1720 kHz digitally tunable in 10 kHz steps
Antenna	Terminal block connector, external AM loop antenna supplied
Sensitivity	20μV for 20 dB S/N
AGC	45 dB
Audio Output	Adjustable from rear panel, -10 dBm to +3 dBm, 600Ω balanced, 3-pin terminal block
T.H.D.	Less than 3% at 66.6% modulation

### WEATHER RADIO RECEIVER MODULE

NOAA Weather Channel	Channel 1: 162.550 MHz Channel 2: 162.400 MHz Channel 3: 162.475 MHz Channel 4: 162.425 MHz Channel 5: 162.450 MHz Channel 6: 162.500 MHz Channel 7: 162.525 MHz
Sensitivity	Better than 1μV for 12 dB SINAD
Image Rejection	60 dB
Modulation	FM, ±5 kHz deviation
Antenna	75Ω, type F connector
Audio Output	Adjustable from rear panel, -10 dBm to +3 dBm 600Ω balanced, 3-pin terminal block

### VHF LOW BAND RECEIVER MODULE

Frequency Range	30-50 MHz, digitally tunable in 5 kHz steps within ± 1 MHz tuning range
Antenna	75Ω, Type F connector
Sensitivity	1μV for 12 dB SINAD
Image Rejection	55 dB
Modulation	FM, ± 5 kHz deviation
Audio Output	Adjustable from rear panel, -10 dBm to +3 dBm 600Ω balanced, 3 pin terminal block

### VHF HIGH BAND RECEIVER MODULE

Frequency Range	151-168 MHz, digitally tunable in 5 kHz steps within ± 2 MHz tuning range
Antenna	75Ω, Type F connector
Sensitivity	1μV for 12 dB SINAD
Image Rejection	55 dB
Modulation	FM, ± 5 kHz deviation
Audio Output	Adjustable from rear panel, -10 dBm to +3 dBm 600Ω balanced, 3 pin terminal block

### UHF RECEIVER MODULE

Frequency Range	450-470 MHz, digitally tunable in 10 kHz steps
Antenna	75Ω, Type F connector
Sensitivity	1.5μV for 12 dB SINAD
Image Rejection	55 dB
Modulation	FM, ± 5 kHz deviation
Audio Output	Adjustable from rear panel, -10 dBm to +3 dBm 600Ω balanced, 3 pin terminal block

### PHYSICAL AND ENVIRONMENTAL

Input Power	117 VAC ± 10%, 60 Hz, 15 watts maximum
L.O. Emissions	Fully complaint with FCC Rules, Part 15
Dimensions	1-3/4"H x 19"W x 12"D
Operating Temperature	0° to +50°C
Net Weight	Approximately 6.5 lbs
Shipping Weight	Approximately 8 lbs

### ORDERING INFORMATION

TFT PART NUMBER	DESCRIPTION
5116-0930A	EAS 930A complete assembly with chassis power supply, and AM, FM, and Weather Receiver Modules
7100-4286	Chassis with power supply and audio monitor speaker only
7100-4289	VHF Low Band Receiver Module (specify frequency)
7100-4290	VHF High Band Receiver Module (specify frequency)
7100-4291	UHF Receiver Module (specify frequency)
7100-4284A	FM Receiver Module
7100-4283A	AM Receiver Module
7100-4285A	NOAA Weather Receiver Module
4750-0991	Balanced Audio Cable Assembly, 8' (EAS 930A Output to EAS 911 Input)

