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AWR ERM 100

The AWR-ERM100 is an embedded radio module, which is a small electronic device used to wirelessly transmit and/or receive radio signals from a PC or an embedded wireless device. That can be commonly used in Call Boxes, Nurse Call Radios, Alarm System Radios, or Public Adress Interfaces.

Wirelessly transmit and/or receive radio signals.

Key Features:

- RF power output .5 / 2 Watts
- RF Channels: 16 Independent TX/RX frequencies
- Frequency: 450-470 MHz (UHF Band)
- Frequency Stability: +/- 2.5 ppm
- Tone/Code Signaling: CTCSS & DCS
- Audio Companding Tx & Rx: Software configurable per channel
- Remote channel steering
- Input for POCSAG paging

Specifications:

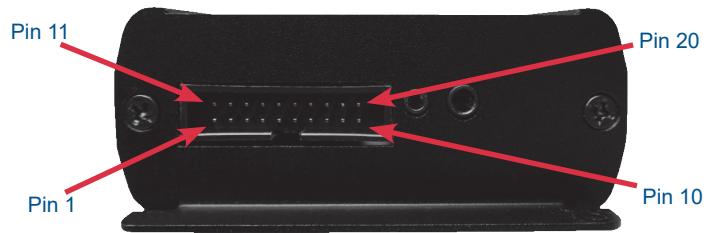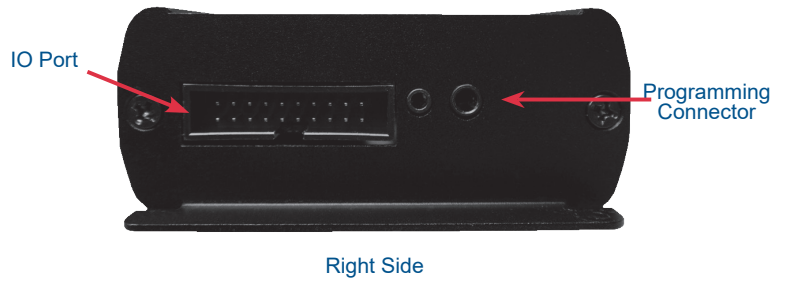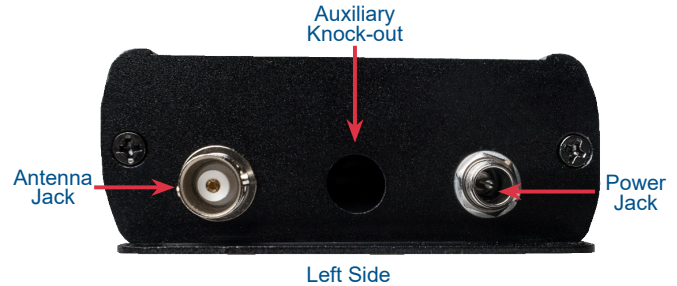|					
Housing Color	Black	Operating Frequency Range	450 - 470 MHz	FM Noise	≥45 dB
Height	1.25"	Frequency Separation	12.5 KHz	Duty Cycle	50 / 50
Width	3.13"	Tone / Code Signaling	CTCSS / DCS	Audio Power Output	500 mW
Length	5.7"	Transmit Time-out Timer	30 to 300 seconds or Off	Sensitivity (12 dB SINAD)	.3 µV
Weight	7.43 oz	RF Connector	BNC FM	Selectivity (EIA)	60 dB
Antenna	Detachable	DC Power Connector	2.1 mm	Image Rejection (EIA)	80
Audio Accessory Jack	20 Pin Rectangular	Antenna Impedance	50 Ohm	Intermodulation Rejection (EIA)	65 db
Power Requirement	12V, 2 amp	RF Output @Antenna Port	2 Watts	Frequency Stability	+/- 2.5ppm
Power Input	12V DC	Frequency Stability	2.5 ppm	Noise Squelch Sensitivity	.25 µV
Transmitter Power	2 Watts	Modulation	11K0F3E	Audio Frequency	300-3000 Hz
Channels	16	Deviation	+/- 2.5K		
FCC ID	Q9SAWRERM100	Spurious & Harmonics	≤-36 dBm		
IC	4651A-ERM100	Audio Response	300 - 3000 Hz		

Pin Number Chart

Pin Number	Function
1	Most significant channel select (CS3)
2	Channel select (CS2)
3	Channel select (CS1)
4	Least significant channel select bit (CS0)
5	+12 VDC input (No protection or fuse)
6	Carrier detect output, COR
7	Auxiliary input - wideband input for POCSAG input
8	Auxiliary output
9	WB input enable (When externally pulled low)
10	Microphone input
11 - 14	NC*
15	Ground
16	PTT (pull to ground to transmit)
17	TX Data
18	Rx Data
19	Speaker Output N
20	Speaker Output P

Note: Incorrect connections or usage may cause damage to the radio or to the circuitry connected to it.

* Do not connect to the NC pins.

AWR-ERM100
Part Number: 922960

Auxiliary Knock-out

Antenna Jack

Power Jack

Left Side

Accessories:

Cable ERM Universal Wire Harness 922974

Power Supply 221287

IO Port

Programming Connector

Right Side

Pin 11

Pin 20

Pin 1

Pin 10

Additional information available at: www.advancedwireless.com