



PRODUCT DATA SHEET
TRANSPORTABLE
DIGITAL AND ANALOG
REPEATER AND
TRANSCEIVER SYSTEM

Step Electronics' Transportable Digital/Analog Repeater and Transceiver system is designed for quick deployment and redeployment in a situation that requires a quick and adaptable response. The system enables emergency responders to set up two radio communications within minutes while on the move. Capable of digital, analog, and mixed-mode operations, it accommodates portable radios in either digital or analog mode.



The Transportable repeater is housed in a lockable rugged suitcase weighing approximately 21 kg. Duplexers and magnetic mobile antenna with switching power supply accepting AC inputs (85 - 250 Vac, 49-61 Hz) are also included.

Portable mast is included in a separate carry bag made from high grade aluminum--durable, versatile and corrosive free. It is designed to meet the growing need of portable mast capable of supporting the needs of today's emergency response personnel.

The System is available in UHF and 800 MHz band. UHF system transceiver unit are a digital and analog - a dual mode portable repeater capable to operate in digital and analog mode type DT-113 and type DT-112 for 800 MHz band.

The system comes with :

- Digital/analog repeater in one suitcase
- 3 dB gain light weight Omni antenna
- Portable antenna mast 30 ft with wheeled Carry Bag.
- Battery pack in hard carrying case complete with charger

Specifications:

Transmitter

Frequency	403 - 433/438 - 470 Mhz, 851 - 870 Mhz
Frequency Stability	1 ppm
Spurious and Harmonics	60 dB

Receiver

Frequency	403 - 433/438 - 470 Mhz	
Adjacent Channel Rejection Analog/Digital (12.5 KHz) (Selectivity)	75/85 dB	60 dB
Sensitivity 12 dB SINAD	0.35 uV	
Sensitivity Static Bit Error Rate (BER) 5%	0.35 uV	
Bit Error Rate Floor	0.01 %	
Frequency Stability	1 ppm	
Intermodulation Rejection	85 dB	
Spurious and Image Response Rejection	100 dB	
Frequency	806 - 820 Mhz	
Adjacent Channel Rejection (Selectivity)	Analog	Digital (12.5 KHz)
	70/80 dB	60 dB
Sensitivity 12 dB SINAD	0.30 uV	
Sensitivity Static Bit Error Rate (BER) 5%	0.30 uV	
Bit Error Rate Floor	0.01 %	
Frequency Stability	1 ppm	
Intermodulation Rejection	85 dB	
Spurious and Image Response Rejection	100 dB	

Number of Frequencies	1 Standard	
Frequency Generation	Synthesized	
Channel Spacing	25/12.5 KHz	
Digital Channel Spacing	12.5 KHz	
Mode of Operation	Simplex/Semi-duplex	
Input Voltage AC	85 - 250 Vac, 49 - 61 Hz	
Battery pack (in separate case)	back up for 4 to 8 hours	
Analog Modulation	FM	
Digital Modulation	C4FM	
Operating Temperature	- 30 °C to + 60 °C	
Size	50.8 x 38.1 x 19.7 cm	
Weight		
	Without duplexer	19.5 kg
	With duplexer	20.9 kg

