

MOBEXCOM P25

TRANSPORTABLE
DIGITAL VEHICULAR REPEATER SYSTEM



P25 COVERAGE TO GO

TRANSPORTABLE P25 DIGITAL VEHICULAR REPEATER SYSTEM (TDVRS)

DESIGNED FOR PUBLIC SAFETY APPLICATIONS

Futurecom Vehicular Repeaters have been successfully deployed and in use by numerous Police and Fire Departments across the US and Canada for more than 15 years. The last generation of Digital Vehicular Repeaters offers seamless performance by extending voice communications as well as trunking system features to the portable radio users.

PORTABLE RADIO COVERAGE EXTENDER

Digital Vehicular Repeater Systems (DVRS) are used to provide reliable portable radio communications in areas where portable radio users have marginal to none direct access to the Radio System.

RADIO COVERAGE FLEXIBILITY

The Transportable DVRS (TDVRS) provides extra flexibility during Fire Ground operation or other Tactical incidents when the portable radio users need to 'bring the radio coverage where it is most needed'.

COMPATIBILITY

The TDVRS is a self contained, fully integrated package and easy to deploy in the field. The Vehicular Repeater, Mobile Radio, filtering and accessories are mounted inside the transportable suitcase enclosure.

The TDVRS is compatible with remote mount XTL™2500 (M5 Control Head) or remote mount XTL™5000 (O3 or O5 Control Head).

ANTENNAS

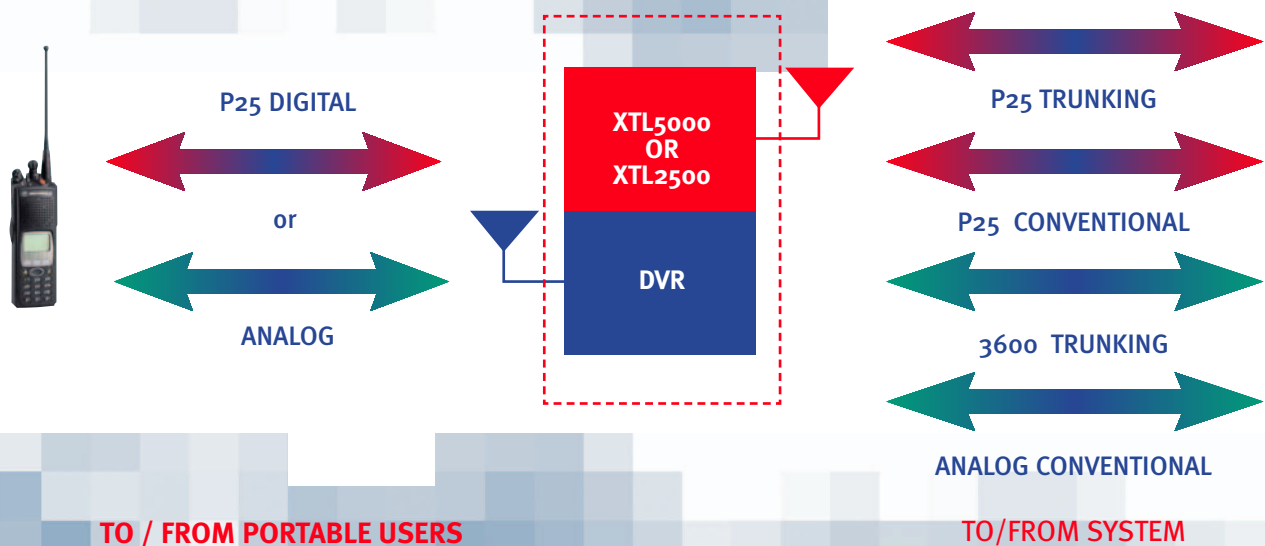
The DVRS requires two antenna - one for communications with the System and another for provision of local portable radio coverage.

POWER UP OPTIONS

The TDVRS can be DC powered via an optional battery pack or AC powered by connecting to standard 117V AC power outlet.



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DVRS MODE (SIMPLEX OR FULL DUPLEX)

XTL™2500/XTL™5000 SELECTED MODE	ANALOG	P25 DIGITAL
P25 9600 BAUD TRUNKING	YES	YES
P25 CONVENTIONAL	YES	YES
3600 TRUNKING ANALOG OR DIGITAL	YES	NO
CONVENTIONAL ANALOG	YES	NO

TECHNICAL HIGHLIGHTS

- Available in VHF / UHF / 700 / 800MHz bands (25 or 12.5kHz).
- Note: At least one extra frequency pair must be licensed and dedicated to a DVRS use only (frequency plan restrictions apply)!
- In-band or Cross-Band models available.
- Programmable Analog or P25 Digital operation.
- P25 Digital Conventional DVR mode can be used to extend coverage from P25 Trunking or P25 Conventional Systems.
- Analog Conventional DVR mode can be used to extend coverage from P25 9600 or 3600 Trunking, or Conventional (Analog or Digital) System.
- Full Duplex or Simplex mode support.
- Controlled from the integrated Mobile Radio Control Head.
- Tactical model (single channel conventional repeater without Mobile Radio) available.
- Fully synthesized and field programmable via USB interface.
- 64 Channels capable.
- Field Flash upgradeable.
- Programmable output power 1-10 Watts at Antenna port.



BATTERY PACK AND CHARGER FOR TRANSPORTABLE DVRS

Backup Time for DVRS (50:50 Tx-Rx Duty Ratio, with New Batteries)	2 hrs
Dimensions Height / Width / Depth	
Battery Pack	245mm (9.65") / 280mm (11.0") / 175mm (6.9")
Battery Charger	51mm (2.0") / 127mm (5.0") / 124.5mm (4.9")
Weight	
Battery Pack	13.0kg (28.5lb)
Battery Charger	1.8kg (4.0lb)
Battery Charger Input Voltage	100-132 V AC, 50-60 Hz
Battery Pack Output Voltage Range	10.9V DC – 13.8V DC
Charging Temperature	+20°C to +25°C (+68°F to +77°F)
Operating Temperature	-15°C to +50°C (+5°F to +122°F)
Storage Temperature	+25°C (+77°F)
Charger Output DC Fuse (Reverse DC Polarity Protection)	7.5A, Automotive Blade Type, Fast Blow
Charger Compliance	CSA C22.2, UL 1236
Charger DC Plug Compliance	MIL-C-5015
Connectors	
Battery Pack DC Output	CA3102E16-11SB, "MIL-C-5015" Bayonet
Charger AC Input	NEMA 5-15P Three Prong AC Plug
Charger DC Output	CA3106E16-11PB, "MIL-C-5015" Bayonet
Battery Pack Output Voltage Indicator	
Flashing RED	< 10.9V DC approx
Flashing GREEN	> 10.9V DC approx.
Charger Indicator	
RED	Charging
Flashing GREEN	Battery Pack 80% Charged
GREEN	Battery Pack Charged, Float Charging
Alternating RED/GREEN	Error
Charging Time	10 hrs approx.
Float Charge	Required

General Specifications

Dimensions	Height / Width / Depth	524mm (20.6") / 437mm (17") / 218mm (8.6")		
	Approximate Weight	22kg (48.5lbs)		
	Channel Spacing	12.5 or 25 kHz programmable		
	Number of Channels	64		
	CTCSS/DCS	Programmable per Channel		
	Power Supply	DC 13.8V DC +/- 20% 115V AC +/-15%		
Current Drain		AC		DC
	Standby/Receive	0.5A		1.6A
	Transmit	2.8A		14.5A
	Operating Temperature	-30°C to +60°C		
	Antenna Impedance	50 Ohms		
External Connectors				
	Antenna (DVR and Mobile)	N female		
	Computer Interface	USB		
	Power	AC – MS3102E14-7P; DC – MS3102E16-11P		

Equipment Type Acceptance

	VHF	UHF	700	800
FCC	LO6-DVRSVHF	LO6-DVRSUHF	LO6-DVRS700	LO6-DVRS800
Industry Canada	2098B-DVRSVHF	2098B-DVRSUHF	2098B-DVRS700	2098B-DVRS800

Transmitter Specifications

	VHF	UHF	700	800
Frequency Band [MHz]	136-174	380-430 450-470 470-512	764-776	851-870
Power Output @ Antenna Port	10W (programmable per channel from 1W to 10W)			
CCT Option	15 sec to 15 min or Disabled			
Max Spurious Output	-20dBm			
Frequency Stability	+/- 1.5ppm			
FM Hum and Noise 12.5 / 25 kHz	37 dB / 43 dB			
Audio Response	+1, -3 dB of 6 dB / octave pre-emphasis characteristic over 300 Hz – 3 kHz			
Audio Distortion	<2%			

Receiver Specifications

	VHF	UHF	700	800
Frequency Band [MHz]	136-174	380-430 450-470 470-512	794-806	806-825
Receiver Sensitivity	-115 dBm			
Frequency Stability	+/- 1.5ppm			
Selectivity 12.5 / 25 kHz	60 dB / 75 dB			
Intermodulation	75 dB			
Deviation 12.5 / 25 kHz	+/-2.5 kHz / +/-5 kHz			
FM Hum and Noise 12.5 / 25 kHz	37 dB / 43 dB			
Audio Output (Repeater Detect Audio)	600 mV RMS nominal, flat response			
Audio Response	+1, -3 dB of 6 dB / octave pre-emphasis characteristic over 300 Hz – 3 kHz			
Audio Distortion	<2%			

MOBEXCOM P25 DVRS AVAILABLE EXCLUSIVELY FROM MOTOROLA

Specifications subject to change without notice.



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