



# PDR8000 PORTABLE DIGITAL REPEATER



**MOTOROLA SOLUTIONS**





## PDR8000 PORTABLE DIGITAL REPEATER

Special ops and security detail teams requiring enhanced Conventional two-way radio network coverage can look to the PDR8000 Portable Digital Repeater as their solution of choice when on the move. Designed with these special teams in mind, the lightweight transportable case is suited for discreet travel.

Set up the PDR8000 transportable case at a special event or incident to swiftly provide local P25, on-scene portable radio coverage. Connect to your Motorola Solutions dispatch console wherever it may be via a V.24 telephone connection.

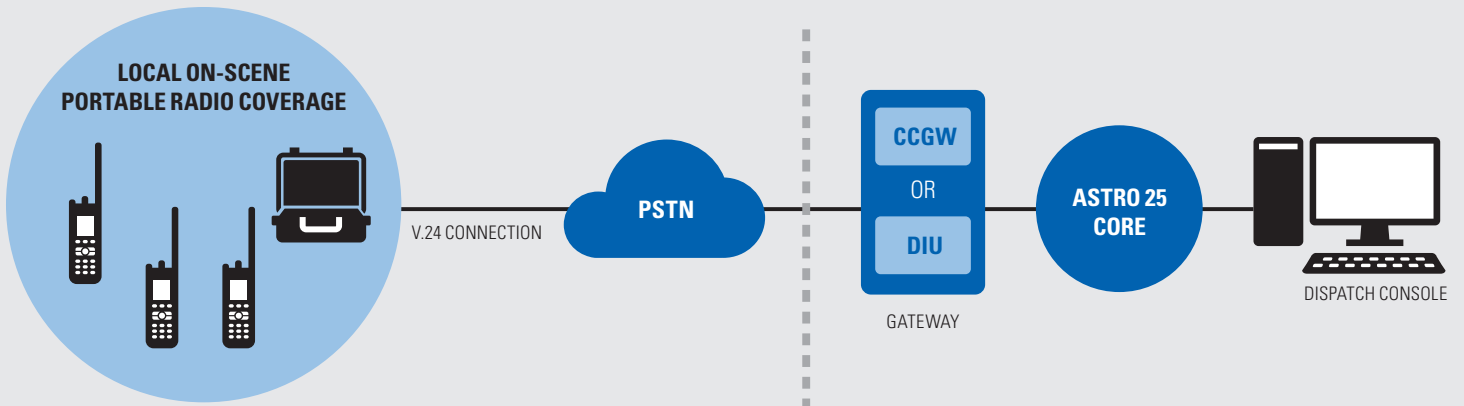
### KEY FEATURES AND BENEFITS

- All Bands – VHF, UHF, 700 MHz and 800 MHz
- Lightweight construction - less than 28 lbs.
- Rapid deployment with AC or DC power source capability
- Closed case operation
- Easy to swap internal duplexer
- Able to use external duplexer
- End-to-end Encryption supported
- Cross patch capability
- Optional booster pack provides up to 50 watts output
- Platform support for future interfaces including Bluetooth, Wi-Fi and Ethernet

### APPLICATIONS

- Special events
- Interoperability
- Dignitary protection
- In-building coverage
- Natural disaster

# PDR8000 DIAGRAM



## GENERAL SPECIFICATIONS

Dimensions: Height / Width / Depth (without Antenna)	488 mm (19.2") x 386 mm (15.2") x 185 mm (7.3")	<b>External Connectors</b>	
Weight with Duplexer	27.4 lbs. (12.5kg)		
IEC IP Rating During Operation and Storage (Closed Case)	IP65	PDR Antenna RF Input RF Output AC Input DC Input AUX V.24 LAN	
AC Supply Voltage	95V AC to 264V AC, 47Hz to 63Hz		
AC Current at 120V AC	2.9A	N female, with Dustcap N female, with Dustcap N female, with Dustcap powerCON TRUE1, NAC3MPX, with Sealing Cover LEMO push pull, EGL.2K.302.CLA, with Dustcap LEMO push pull, EGG.1K.306.CLL, with Dustcap RJ-45 Type, 17-111574, with Dustcap RJ-45 Type, 17-111574, with Dustcap	
AC Supply Approvals	UL60950-1 and IEC60950-1		
DC Supply Voltage	13.8V DC +/-20%	<b>Internal Connectors</b>	
<b>DC Current Drain</b> Standby/Receive Transmit	0.8A 7.0A		
Operating Temperature, Full Power Output, 50:50 Duty Ratio	-30°C to 60°C	Computer Interface	USB (type B)
PDR Duty Cycle	50:50 Duty Ratio	Channel Spacing	12.5kHz programmable
Antenna Impedance	50 Ohms	Number of Channels	16

## EQUIPMENT TYPE ACCEPTANCE

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

## TRANSMITTER SPECIFICATION

	VHF	UHF	700 MHz	800 MHz
Frequency Band [MHz]	136-174 MHz	380-430 MHz 450-470 MHz 470-512 MHz	764-776 MHz	851-869 MHz
Typical Power Output (on Internal TX Port)	20W (programmable per channel from 1W to 20W)			
TOT Option	10 seconds to 2550 seconds or Disabled			
Max Spurious Output	-20dBm			
Frequency Stability	+/- 1.5ppm			
FM Hum and Noise 12.5kHz	37dB			

## RECEIVER SPECIFICATION

	VHF	UHF	700 MHz	800 MHz
Frequency Band [MHz]	136-174 MHz	380-430 MHz 450-470 MHz 470-512 MHz	794-806 MHz 764-776 MHz	806-824 MHz 851-869 MHz
Receiver Sensitivity – Digital P25 5% BER (on Internal RX Port)	-115dBm			
Frequency Stability	+/- 1.5ppm			
Selectivity 12.5kHz	60dB			
Intermodulation	70dB			
FM Hum and Noise 12.5kHz	37dB			



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