



PDR8000 PORTABLE DIGITAL REPEATER



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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 suitcase is ideal for discreet travel.

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

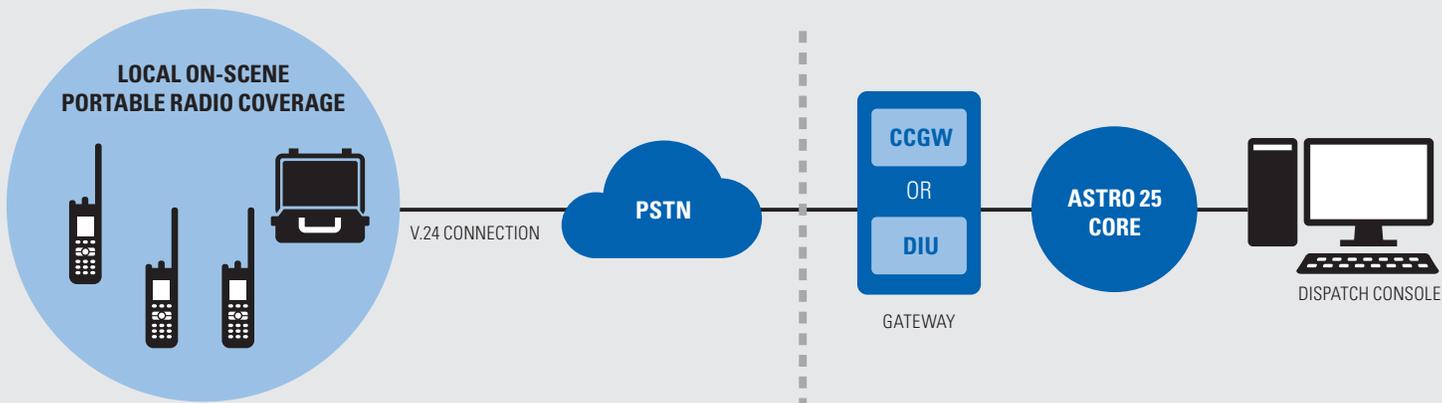
KEY FEATURES AND BENEFITS

- 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
- Local user interface
- Deployment profile capability
- Able to use external duplexer
- End-to-end Encryption supported
- Voting and comparator operation
- 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: Width / Height / Depth (without Antenna)	488 mm (19.2") x 386 mm (15.2") x 185 mm (7.3")	External Connectors																
Weight with Duplexer	27.4 lbs. (12.5kg)																	
IEC IP Rating During Operation and Storage (Closed Case)	IP65	<table border="1"> <tr> <td>PDR Antenna</td> <td>N female, with Dustcap</td> </tr> <tr> <td>RF Input</td> <td>N female, with Dustcap</td> </tr> <tr> <td>RF Output</td> <td>N female, with Dustcap</td> </tr> <tr> <td>AC Input</td> <td>powerCON TRUE1, NAC3MPX, with Sealing Cover</td> </tr> <tr> <td>DC Input</td> <td>LEMO push pull, EGL.2K.302.CLA, with Dustcap</td> </tr> <tr> <td>AUX</td> <td>LEMO push pull, EGG.1K.306.CLL, with Dustcap</td> </tr> <tr> <td>V.24</td> <td>RJ-45 Type, 17-111574, with Dustcap</td> </tr> <tr> <td>LAN</td> <td>RJ-45 Type, 17-111574, with Dustcap</td> </tr> </table>	PDR Antenna	N female, with Dustcap	RF Input	N female, with Dustcap	RF Output	N female, with Dustcap	AC Input	powerCON TRUE1, NAC3MPX, with Sealing Cover	DC Input	LEMO push pull, EGL.2K.302.CLA, with Dustcap	AUX	LEMO push pull, EGG.1K.306.CLL, with Dustcap	V.24	RJ-45 Type, 17-111574, with Dustcap	LAN	RJ-45 Type, 17-111574, with Dustcap
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AC Supply Voltage	100 VAC to 240 VAC, 47 Hz to 63 Hz																	
AC Current at 120V AC	2.9A																	
AC Supply Approvals	UL60950-1 and IEC60950-1																	
DC Supply Voltage	13.8V DC -15% / +20%																	
DC Current Drain																		
Standby/Receive	1.3A																	
Transmit	7.0A																	
Operating Temperature, Full Power Output 50% duty cycle (case closed) 100% duty cycle (case open)	-30 to 60 °C (-22 to 140 °F)																	
PDR Duty Cycle	50% transmit	Internal Connectors																
Antenna Impedance	50 Ohms	Computer Interface	USB (type B)															
		Channel Spacing	Digital: 12.5 kHz programmable Analog: 12.5 or 25 kHz programmable															
		Number of Channels	64															

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	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			
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	794-806 MHz 764-776 MHz	806-824 MHz 851-869 MHz
Receiver Sensitivity – Digital P25 5% BER (on Internal RX Port)	-115dBm			
Selectivity 12.5kHz	60dB			
Intermodulation	70dB			
FM Hum and Noise 12.5kHz	37dB			



MILITARY STANDARDS COMPLIANCE

	MIL-STD-810G
High Temperature	501.6
Low Temperature	502.6
Temperature Shock	503.6
Rain	506.6
Humidity	507.6
Salt Fog	509.5
Vibration	514.7
Shock	516.7
Safety	EN62638-1



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. motorolasolutions.com

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