

Ordering Guide

PDR8000 – Portable Digital Repeater

Revision 1.1

June 30, 2017



Contents

Revision History.....	3
Ordering Instructions – PLEASE READ CAREFULLY	4
Important Notes	5
1. PDR8000 Frequency Type	6
PDR8000 136-174 MHz	6
PDR8000 380-430 MHz	6
PDR8000 450-470 MHz	7
PDR8000 470-512 MHz	7
PDR8000 700 MHz.....	8
PDR8000 800MHz.....	8
2. Wireline Connection	9
3. Internal Duplexer Options	10
4. Suitcase Color Option	12
5. Antennas	13
6. PDR8000 Spares & Options Ordered Separately	14
7. Services	16
8. Suitcase Comparison Chart Reference	18

Revision History

REVISION	DATE	NOTES
1.1	2017-06-30	Added No Charge Standard Black Suitcase – TT06281A, Added the following Spares: DDN2332A- Spare PDR8000 DC Cable DDN2333A – Spare PDR8000 Auxiliary Cable DDN2334A – Spare Charger for PDR800 Battery Backup (5 Hrs.) DDN2335A – Zippered Accessory Pouch DDN2336A – Battery Backup for PDR8000 DDN2313A – Spare VHF Duplexer DDN2314A – Spare 380-430 MHz UHF Duplexer (10 MHz Separation) DDN2315A – Spare 380-430 MHz UHF Duplexer (5 MHz Separation) DDN2316A – Spare 450-470 MHz UHF Duplexer DDN2317A – Spare 470-512 MHz UHF Duplexer DDN2318A – Spare 700 MHz Duplexer DDN2319A – Spare 800 MHz Duplexer Added Suitcase comparison chart

Ordering Instructions – PLEASE READ CAREFULLY

If only ordering spares or accessories, proceed to step 6. If only ordering services, proceed to section 7.

1. Select PDR8000 Frequency type (Section 1). NOTE: PDR8000 Frequency type model provides a repeater, power supply and AC and Unterminated DC Cables. (USB Programming cable not included refer to DDN9025)
2. Select appropriate wireline option connection as applicable to your intended operation (Section 2).
3. For full duplex operation, select the appropriate duplexer option (Section 3). NOTE the frequency requirements can be found in Section 3 to ensure your frequency plan meets the operating requirements. Duplexer is not mandatory and the 'No Duplexer' option can be chosen when full duplex capability is not desired.
4. Select suitcase color options (Section 4).
5. Select required antennas (Section 5).
6. Select spares (Section 6).
7. Select optional services as required (section 7).

Important Notes

1. Only the frequency bands shown in Section 3 are available as standard configurations. For custom filtering, please contact Futurecom: sales@futurecom.com
 - 1 Transmit and 1 Receive frequency are required for ordering. Units will be factory tuned to these frequencies so accuracy is important.
2. Standard PDR8000 delivery time is 10-12 weeks from the time the order is placed and the frequency information is provided. Frequency information must be accurate and in accordance with the frequency plan requirements described in this document in order to avoid delays.
3. Duplexer is not mandatory and the 'No Duplexer' option can be chosen when full duplex capability is not desired.
4. PDR8000 models include standard AC & DC Power Cables.
5. For all sales inquiries, please contact Futurecom sales at sales@futurecom.com.
6. All pricing for the PDR8000 can be found in Motorola E-CAT or MOL.
7. Programming software is available for download at <http://futurecom.com/support/documentation-software/>

1.PDR8000 Frequency Type

PDR8000 136-174 MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT3148A	Base Order Code PDR8000 – VHF	VHF repeater, power supply and AC and DC Cables.		Wireline Connections; see section 2 for wireline connections options

PDR8000 380-430 MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT3149A	Base Order Code PDR8000 - UHF 380-430 MHz	UHF 380-430 MHz repeater, power supply and AC and DC Cables.		Wireline Connections; see section 2 for wireline connections options

PDR8000 450-470 MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT3150A	Base Order Code PDR8000 - UHF 450-470 MHz	UHF 450-470 MHz repeater, power supply and AC and DC Cables.		Wireline Connections; see section 2 for wireline connections options

PDR8000 470-512 MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT3151A	Base Order Code PDR8000 - UHF 470-512 MHz	UHF 470-512 MHz repeater, power supply and AC and DC Cables.		Wireline Connections; see section 2 for wireline connections options

PDR8000 700 MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT3152A	Base Order Code PDR8000 – 769 MHz- 775 MHz/799-805 MHz	700 MHz repeater, power supply and AC and DC Cables.		Wireline Connections; see section 2 for wireline connections options

PDR8000 800MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT3153A	Base Order Code PDR8000 – 806-824/ 851-869 MHz	800 MHz repeater, power supply and AC and DC Cables.		Wireline Connections; see section 2 for wireline connections options

2. Wireline Connection

<u>ORDER CODE</u>	<u>ITEM</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT06253AA	Add V.24 Wireline Operation	TT3148A or TT3149A or TT3150A or TT3151A or TT3152A or TT3153A	

3. Internal Duplexer Options

<u>OPTIONS</u> <u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT06261AA	No Duplexer Required Option		TT3148A, TT3149A, TT3150A, TT3151A, TT3152A, TT3153A	
TT06254AA	Add Duplexer: VHF 5 MHz TX to RX Separation		TT3148A – PDR8000 - VHF	
TT06255AA	Add Duplexer: 380-430 MHz 10 MHz TX to RX Separation		TT3149A – PDR8000-UHF 380-430 MHz	
TT06256AA	Add Duplexer 380-430 MHz 5 MHz TX to RX Separation		TT3149A – PDR8000-UHF 380-430 MHz	
TT06257AA	Add Duplexer 450-470 MHz 5 MHz TX to RX Separation		TT3150A – PDR8000-UHF 450-470 MHz	

TT06258AA	Add Duplexer 470-512 MHz 3 MHz TX to RX Separation		TT3151 PDR8000-UHF 470-512	
TT06259AA	Add Duplexer 700 MHz 30 MHz TX to RX Separation		TT3152A PDR8000-700 MHz	
TT06260AA	Add Duplexer 800 MHz 45 MHz TX to RX Separation		TT3153A PDR8000-800 MHz	



4. Suitcase Color Option

<u>OPTIONS ORDER CODE</u>	<u>ITEM</u>		<u>PREREQUISITES</u>	<u>NOTES</u>
TT06281AA	Standard: Black Suitcase		TT3148A or TT3149A or TT3150A or TT3151A or TT3152A or TT3153A	Zero Cost Option
TT06251AA	Alternative: Replaces standard black suitcase with Olive Drab Green suitcase		TT3148A or TT3149A or TT3150A or TT3151A or TT3152A or TT3153A	Alternative cost to Standard Black Suitcase
TT06252AA	Alternative: Replaces standard black suitcase with Yellow suitcase		TT3148A or TT3149A or TT3150A or TT3151A or TT3152A or TT3153A	Alternative cost to Standard Black Suitcase

5. Antennas

ANTENNAS FOR PDR8000 UNITY GAIN (0dBd), MAG MOUNT	FREQUENCY BAND [MHz]
DDN9014	136 – 174
DDN9015	380 – 520
DDN9016	764 – 869

6.PDR8000 Spares & Options Ordered Separately

<u>ORDER CODE</u>	<u>DESCRIPTION</u>	<u>Connector Type / Cable Length</u>
DDN2300A	PDR8000 AC Power Cable (FC # NKPF-515-D-2)	6'
DDN2301A	PDR8000 DC Power Cable (FC # 7W088X11-01) for battery backup.	8'
DDN2332A	PDR8000 DC Power Cable (FC # 7W088X11-02) Unterminated	8'
DDN2336A	Battery Backup for Suitcase PDR8000 (5 hours) 	
DDN2334A	Spare Charger for PDR8000 Battery Backup Kit 	N/A
DDN2333A	External PDR Auxiliary Cable (FC #7W088X12-01)	3'
DDN9025A	PDR8000/DVR Programming Cable (FC #AK672-3-R)	USB A to USB B, 10'
DDN2335A	Zippered Pouch	

Spare Duplexers












<u>ORDER CODE</u>	<u>DESCRIPTION</u>
DDN2313A	Spare PDR Duplexer - VHF
DDN2314A	Spare PDR Duplexer – UHF 380-430 MHz (MIN 10 MHz Separation)
DDN2315A	Spare PDR Duplexer - UHF 380-430 MHz (MIN 5 MHz Separation)
DDN2316A	Spare PDR Duplexer - UHF 450-470 MHz
DDN2317A	Spare PDR Duplexer – UHF 470-512 MHz
DDN2318A	Spare PDR Duplexer – 700 MHz
DDN2319A	Spare PDR Duplexer – 800 MHz

7. Services

<u>ORDER CODE</u>	<u>DESCRIPTION</u>	<u>Notes and Conditions</u>
DDN2303A	PDR8000 4 Year Extended Warranty	<p>Extends standard 18 month warranty by 4 years. Includes software subscription. Can only be purchased once per unit.</p> <p>Must be purchased prior to expiration of standard warranty.</p>
DDN2302A	PRD8000 1 Year Extended Warranty	<p>Extends existing warranty by one year. Includes software subscription.</p> <p>Must be purchased prior to expiration of any existing warranty. Standard 18 month warranty can be extended by a maximum of 4 years.</p>
DDN1971A	On-Site Technical and Programming Support (BASIC)	<p>Maximum 1 day; see EXTENDED support for additional days.</p> <p>Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.</p>

ORDER CODE	DESCRIPTION	Notes and Conditions
DDN1972A	On-Site Technical and Programming Support (EXTENDED)	Must purchase BASIC on-site technical and programming support. All on-site activity must be scheduled as sequential days.
DDN1973A	Technical and Programming Phone Support	Must be purchased in 1hr increments.
DDN1974A	On-Site Training (BASIC)	<p>Maximum 1 day; see EXTENDED training for additional days.</p> <p>Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.</p> <p>Standard training package. Includes soft copy of training materials. Customized training available subject to content and price negotiation.</p>
DDN1975A	On-Site Training (EXTENDED)	Must purchase BASIC on-site training All on-site activity must be scheduled as sequential days.

8. Suitcase Comparison Chart Reference

				
	Standalone Suitcase	Suitcase Trunking/ Conventional Extension	Standalone Suitcase with Internal Lithium Battery	Suitcase with V.24 Extension
Size (W,H,D)	17" x 20.6" x 8.6"	17" x 20.6" x 8.6"	14.06" x 19.3" x 6.93"	19.2 x 15.2 x 7.3
Frequency Band	VHF, UHF, 700 MHz, 800 MHz	VHF, UHF, 700 MHz, 800 MHz	VHF, UHF, 700 MHz, 800 MHz	VHF, UHF, 700 MHz, 800 MHz
Power Output	10 Watts	10 Watts	10 Watts	20 Watts
Weight	50 lbs.	50 lbs.	22 lbs.	27.4 lbs.
AC/DC Power	YES	YES	NO	YES
Duty Cycle	Continuous	Continuous	50:50	50:50
Analog Conventional Operation	YES	YES	YES	NO
P25 Digital Conventional Operation	YES	YES	YES	YES
Interchangeable Duplexer	NO	NO	NO	YES
Battery Source	External	External	Internal	External
Network Connection Type	NONE	APX MOBILE	NONE	WIRELINE
Closed Case Operation	NO	NO	YES	YES
Standard Case Colors				
Optional Case Colors				
Backpack Sling (Optional)	YES	YES	YES	YES
Battery Pack (Optional)	YES	YES	NO	YES
50 Watt Booster Pack (Optional)	NO	NO	NO	YES