

Ordering Guide

PDR8000[®] – Portable Digital Repeater Rackmount

Revision 1.2

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Ordering Instructions – PLEASE READ CAREFULLY

If only ordering spares or accessories, proceed to step 5. If only ordering services, proceed to section 6.

1. Select PDR8000® Rackmount Frequency type (Section 1). NOTE: PDR8000® Frequency type model provides a repeater designed to fit into a standard 19” rack. includes Display with local Channel Change. User must supply their own 12VDC Power Supply.
2. Select optional features if 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 optional 50-Watt Power Amplifier for PDR8000® RACKMOUNT (section 4)
5. Select Options and Spares (Section 5).
6. Select optional services as required (section 6).

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® Rackmount models require users to supply their own 12VDC Power Supply.
5. For all sales inquiries, please contact Futurecom sales at sales@futurecom.com.
6. All pricing for the PDR8000® can be found in Motorola P-CAT.
7. Programming software is available for download at <http://futurecom.com/support/documentation-software/>
8.  Subscribe to our newsletter if you want to be informed about new releases and updates. Please visit <http://futurecom.com/support/newsletter/>



Frequency plans that do not meet Futurecom's specified frequency separation are custom orders. Please contact Futurecom to determine if custom frequency plan is viable and for quotations on viable plans. sales@futurecom.com

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1.PDR8000® Rackmount Frequency Type

PDR8000® 136-174 MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT4079A	Base Order Code PDR8000® – VHF RACKMOUNT	VHF repeater designed to fit into a standard 19” rack includes Display with local Channel Change.		Wireline Connections; see section 2 for wireline connections options User must supply their own 12VDC Power Supply.

PDR8000® 380-430 MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT4080A	Base Order Code PDR8000® - UHF 380-430 MHz RACKMOUNT	UHF 380-430 MHz designed to fit into a standard 19” rack includes Display with local Channel Change.		Wireline Connections; see section 2 for wireline connections options User must supply their own 12VDC Power Supply.

PDR8000® 450-470 MHz

<u>ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT4081A	Base Order Code PDR8000® - UHF 450-470 MHz RACKMOUNT	UHF 450-470 MHz designed to fit into a standard 19" rack includes Display with local Channel Change.		Wireline Connections; see section 2 for wireline connections options User must supply their own 12VDC Power Supply.

2. Optional Features

<u>ORDER CODE</u>	<u>ITEM</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT06253AA	Add V.24 Wireline Operation	TT4079A, TT4080A, TT4081A	Can also be added to field units as add-on functionality (Order Code: DDN2634A)
TT06319AA	Deployment Profiles Capability If the option for Deployment Profile Capability is purchased, PDR8000® can be programmed with up to ten different Deployment Profiles, each uniquely defining the operational characteristics of the PDR8000®.	TT4079A, TT4080A, TT4081A	Can also be added to field units as add-on functionality (Order Code: DDN2633A)
TT06582AA	Add DFSI Operation: Provides P25 standard	TT4079A, TT4080A, TT4081A	Can also be added to field units as add-on functionality

<u>ORDER CODE</u>	<u>ITEM</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
	IP wireline fixed station interface.		(Order Code: DDN3285A) DFSI Protocol Version 1 on the Ethernet interface. Analog operation (or Mixed-mode operation) is supported on Ethernet (DFSI) interface.

3. Internal Duplexer Options



Frequency plans that do not meet Futurecom's specified frequency separation are custom orders. Please contact Futurecom to determine if a custom frequency plan is viable and for quotations on viable plans.

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<u>OPTIONS ORDER CODE</u>	<u>ITEM</u>	<u>INCLUDES</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT06583AA	No Duplexer Required Option		TT4079A, 4080A, TT4081A	
TT06584AA	Add Duplexer: VHF 5 MHz TX to RX Separation 500KHz Wide Bandpass		TT4079A – PDR8000® - VHF RACKMOUNT	
TT06585AA	Add Duplexer:		TT4080A	

	380-430 MHz 10 MHz TX to RX Separation 100KHz Wide Bandpass		PDR8000®-UHF 380-430 MHz RACKMOUNT	
TT06586AA	Add Duplexer 380-430 MHz 5 MHz TX to RX Separation 500KHz Wide Bandpass		TT4080A – PDR8000®-UHF 380-430 MHz	
TT06587AA	Add Duplexer 450-470 MHz 5 MHz TX to RX Separation 500KHz Wide Bandpass		TT4081A - PDR8000®-UHF 450-470 MHz	
CUSTOM FILTERS				
TT06579AA	ENGINEERING DESIGN TIME – Non-Recurring Engineering Fee (NRE)			
TT06580AA	CUSTOM FILTER DESIGN – TIER 1 (Per Unit) This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom’s specified frequency separation stated in the ordering guide in order to determine if			

	a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order.		
TT06581AA	<p>CUSTOM FILTER DESIGN – TIER 2 (Per Unit)</p> <p>This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide in order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order.</p>		

4.50-Watt Power Amplifier Option

50-Watt Power Amplifier use in the Rackmount PDR8000® is compatible with full-duplex operation, or half-duplex operation when a duplexer is installed. Operation in simplex, or half-duplex without a duplexer is not supported.

<u>OPTIONS ORDER CODE</u>	<u>ITEM</u>	<u>PREREQUISITES</u>	<u>NOTES</u>
TT3936A	VHF 50-Watt Power Amplifier for PDR8000® Rackmount	TT4079A	
TT3937A	UHF 380-430 MHz 50-Watt Power Amplifier for PDR8000® Rackmount	TT4080A	(Not available for sale in Canada)
TT3938A	UHF 450-470 MHz 50-Watt Power Amplifier for PDR8000® Rackmount	TT4081A	(Not available for sale in Canada)

5. PDR8000® Rackmount Options & Spares Ordered Separately

<u>ORDER CODE</u>	<u>DESCRIPTION</u>	
TT3935A	Rackmount Alarm capability - contact closure type, temperature, power	

Add-On Functionality Software – When not ordered originally with PDR8000®

<u>ORDER CODE</u>	<u>DESCRIPTION</u>
DDN2633A	Enable Deployment Profiles Capability
DDN2634A	Enable V.24
DDN3285A	PDR8000® DFSI CAPABILITY - DFSI Protocol Version 1 on the Ethernet interface. Analog operation (or Mixed-mode operation) is supported on Ethernet (DFSI) interface.

6. Services

Futurecom's standard hardware warranty is 18 months starting from the date the product ships from Futurecom. Please reference Futurecom's Terms and Conditions of Sale, Section 7 regarding standard hardware warranty <https://www.futurecom.com/terms-and-conditions/>

<u>ORDER CODE</u>	<u>DESCRIPTION</u>	<u>Notes and Conditions</u>
DDN2303A	PDR8000® 4 Year Extended Hardware Warranty	<p>Extends standard 18 month hardware warranty by 4 years. Can only be purchased once per unit.</p> <p>Must be purchased prior to expiration of standard hardware warranty.</p>
DDN2302A	PDR8000® 1 Year Extended Hardware Warranty	<p>Extends existing hardware warranty by one year.</p> <p>Must be purchased prior to expiration of any existing hardware warranty. Standard 18 month warranty can be extended by a maximum of 4 years.</p>
DDN1971A	On-site and/or Virtual 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>
DDN1972A	On-site and/or Virtual Programming Support (Extended)	Must purchase BASIC virtual technical and programming support.
DDN1974A		

<u>ORDER CODE</u>	<u>DESCRIPTION</u>	<u>Notes and Conditions</u>
	<p>On-site and/or Virtual Training (BASIC) 2 Courses Available:</p> <p>1. Training the Trainer/end user</p> <p>1 Day (Est 4 hours) end user training gives the end user a general understanding of Futurecom solutions through your agencies particular use case, highlighting best practices through situations commonly seen in the field during deployment situations. Participants will have hands on training with the newly implemented solution for practical operation and control.</p> <p><u>OR</u></p> <p>2. Technical and Programming Training</p> <p>1 Day Technical and Programming training gives the radio technician an in depth understanding on how the DVR-LX®/VRX1000/PDR8000® is integrated into the everyday operation of the agency. Highlighting code plug compatibility, Futurecom Repeater Configurator (FRC) software functionality and programming for optimal end user experience.</p>	<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>Training the trainer requires the newly implemented DVRS/VRX1000/PDR8000® to be tested and in use on the network to get the most out of the Training the Trainer.</p> <p>Standard training package. Includes soft copy of training materials. Customized training available subject to content and price negotiation.</p> <p>Contact Futurecom Systems Group, ULC for a pre-training checklist to insure your solution is ready for Basic virtual Training</p> <p>Technical and Programming Training, Futurecom Systems Group, ULC requires at least two full functioning Portable radios (PSUs) programmed to the current system, at least one installed DVR-LX®/VRX1000/PDR8000®. For DVRS and VRX1000 use a Mobile Radio (MSU) radio set is required to conduct this training properly.</p>
<p>DDN1975A</p>	<p>On-site and/or Virtual Training (EXTENDED)</p>	<p>Must purchase BASIC virtual training</p>

<u>ORDER CODE</u>	<u>DESCRIPTION</u>	<u>Notes and Conditions</u>