

Instant untethered capability™



RDX3™

Rapid Deployment X-Ponder



**REPEATER/LINK
24 HOUR OPERATION
MERLAN P25 CAPABLE
RUGGED & COMPACT
MISSION CRITICAL DURABILITY
P25 CODE TRANSPARENT**



WIRELESS PACIFIC™



Instant Untethered Capability

Responding to emergencies and natural disasters demands ultra reliable equipment that can be deployed at a moments notice. Radio users have long sort the ideal tactical response portable repeater configuration especially those operating in P25 digital mode. A dependable communications solution which could be deployed by non-technical staff simply and easily in any environment. Prior attempts had either been physically too heavy and cumbersome, or had required external connection of large bulky batteries and invariably always needed technical support. Wireless Pacific's unique know how in digital radio and rapid deployment techniques has evolved the RDX3588™ - into the world's most capable, fully self contained, standalone P25 tactical suitcase solution.

RDX3588 - Rapid Deployment X-ponder

P25 Suitcase Network Solution

The RDX3588 is designed to ensure simplified integration into most radio networks. A 6 mode selector allows you to pre-define a variety of configurations to meet your local operational and interoperability needs. The RDX3588 communicates in clear analog or digital and can optionally be configured to provide P25 Transparent and/or DES-OFB or AES digital encryptions. Besides standalone analog/P25 repeater operation, the RDX Advanced model with NetConnect allows wireless linking into an overlapping fixed network. This expanded interoperability capability allows you to use the RDX as an RF gateway to tie together users on up to three separate radio networks. The MERLAN P25 option allows multiple repeaters to be tied together almost anywhere internet access is available.



*Compact RDX3588
with optional lid top antenna*



- VHF/UHF REPEATER
- CROSS BAND OPTION
- AES TRANSPARENT
- P25 DIGITAL OR ANALOG
- LOCAL ENC/DECRYPT OPTION
- SIMPLE INTUITIVE OPERATION
- ADVANCED & COMPACT MODELS
- INTERNAL 17/34AH Li-POL BATTERY
- SMART DEPLOYMENT ACCESSORIES
- MINIMAL USER TRAINING
- CHOICE OF COLOURS



Encryption

The RDX3588 allows secure operation with two configurations. Transparent operation whereby any valid P25 voice transmission is passed through the repeater and a key dependant version, which only allows transmissions with a valid encryption key to be processed.

Secondary Battery

The PPP3600 lightweight Li-POL Pico Power Pack is available when extended operation is required. These 34AH packs can extend standalone life of a 5 watt RDX in repeat mode to over 7 days at a typical 20% Tx duty cycle. These miniature size suitcases are shock resistant and completely water/air tight and are available in the complete range of Pelican® colours. Note: PPP3600 can also be used with WPEMA mast pumps.



PPP3600 34AH LI-POL PICO POWER PACK

Solar Power

RDX is designed to allow use with a broad range of solar panels from leading suppliers or the WSPSK series. In normal sunlight this allows the Pico to be re-charged and left for weeks, even years without the need for human intervention.

Remote Site

A comprehensive range of temporary mast kits provides all the necessary parts to implement a highly substantial remote antenna site. Highly compact and designed for immediate deployment with minimal effort, the WPEMF kits include ultra-light fiberglass masts-both 5 and 10 metre versions. Each kit includes a black collapsible mast, unity gain antenna, guy ropes, anchors, mounting base and all required installation items. Alternatively for more demanding or longer term deployments, we offer a range of WPEMA pump-up aluminium masts.



Transit case

A custom Pelican® 1630 transit case is available for transport and shipping the RDX3588 repeater anywhere in the world. These wheeled cases integrate a custom mould for protecting and storing the repeater. A transit tube with shoulder strap is also for the WPEMF mask kits.

OPTIONS & ACCESSORIES



SPECIFICATIONS:

MODEL SPECIFIC

RF Power Output: 5 /2 /1 Watt programmable
Duplexer bandwidth: 300kHz max
Optional Link RF O/P : N/A
Dimensions: 40.6 x 33 x 17.4 cm/16" x 13" x 7"
Duty Cycle: 5 Watts RF Out continuous rated
Internal battery Life: 24hrs @ 20% 5W Tx duty cycle
Capacity(ambient 68F/20C) 17AH
Standard Weight: <25lbs (10kg)

RDY Advanced Series

25 /5/1 Watt programmable
300kHz / 800kHz max (Max Tx:Tx/Rx:Rx)
5 /1 Watt programmable
48.5 x 39 x 19 cm/19.2" x 15.5" x 7.6"
5 Watt continuous / 25W intermittent
24hrs @ 20% 25W Tx duty cycle
34AH
<30lbs/14kg (With Link: 35lbs/16kg)

GENERAL

Modes: 6 modes/channels
Configurations: Repeater, Repeater/Link, or
3 Way RF patch
Frequency sub-band: 136-174 400-480, 440-520,
Duplexer insertion Loss: 1.5dB max (1db typical)
Channel Spacing: 12.5/25kHz
Operating Temp.: -30°C to +60°C (Li-POL batt -10°C to +60°C)
Operating Voltage: 12VDC
Audio Distortion: ≤3%
FM Hum & Noise: Wide >50dB / Narrow >45dB
Spurious Emissions: <0.25μW <1GHz
Digital Sens. (5% BER): -116dBm P25
Sensitivity: 0.3uV for 12dB SINAD
Intermodulation: >65dB P25
Selectivity: Wide >73dB / Narrow > 67dB
Blocking: >90dB
Spurious Responses: 70dB (ETS)
Type Acceptance: Aust/NZ4295:2004, FCC, ETS300-086



AT WIRELESS PACIFIC WE NEVER LOSE SIGHT THAT THE RIGHT COMMUNICATIONS SOLUTION IS VITAL IN SECURING YOUR ORGANIZATIONAL OBJECTIVES. WE CONSTANTLY FOCUS ON HOW TO DELIVER A BETTER SOLUTION. ONE THAT PROVIDES IMPROVED OPERATIONAL RESPONSIVENESS WITH UNCOMPROMISED SAFETY.

RDY3588™



WIRELESS PACIFIC, WIRELESS PACIFIC ANSWERS, When it matters, RDY, RDY3588 are trademarks or registered trademarks of Wireless Corporation. All other trademarks are the property of their respective owners. Copyright © 2019 Wireless Corporation Ltd. All rights reserved.