

 Wireless Pacific

# RDX PICO™

Rapid Deployment



Analog  
Digital



Miniature Suitcase Repeater

# MINIATURE SUITCASE REPEATER

<4.5kg (10lbs) - 0.008m<sup>2</sup> (0.29ft<sup>2</sup>)



MODEL I



MODEL II



MODEL III

Portables not included - shown for comparative purposes

## Instant Communications

In today's world, we all know timing is everything. The RDX PICO allows you to set up a repeater communications network, almost anywhere, in a flash. Their ultralight ergonomic design means it can be deployed by any one of your staff. Fully self contained, you need only connect an external antenna, press the ON button and you're on-air... It's that easy.

## User Interface

Pico is designed for the non-technical user in mind. A simple press ON button with LED backlighting lets you know it is active. Additionally, the Model II & III provide flashing indication of "low battery condition" so you know when to seek an external power source, as well as a toggle mode selector and bi-colour LED display to show the units stand-by/repeat status.

## Mode Select (models II & III)

Allow you to select pre-programmed configurations such as operational frequency, 12.5/25kHz bandwidth, high/low power, or CTCSS selection to meet you specific operational needs.

## Internal Power

Pico is designed to operate from its internal battery. Models II & III feature a cutting edge Li-Ion battery management system (BMS) that provides for all day operation. The BMS can connect to any available 10-30VDC @>25W power source, or mains AC power for re-charging or longer deployments. The Model I features a conventional fully sealed lead acid gel battery with AC operation/charging.

## Clear or Encrypted

All PICO repeaters can communicate in clear analog. The P25 Digital Model III can also pass DES-OFB or AES encrypted transmissions **transparently**. Designed for mission critical professionals, make it part of your rapid response inventory today.

... when it must work!

## Specifications:

Frequency sub-bands:	136-174, 400-480, 440-520MHz
Channel Spacing:	12.5/25/30kHz
Operating Temp.:	-10° C to +60° C ( RF -30° C to +60° C)
Frequency Stability:	2ppm
Tx Current:	2800mA @5W
Stand-by Current:	380mA
Input AC Voltage:	90-260V AC 47-63Hz
Input DC Voltage:	10-30V DC >25W ( Models II/III only)
RF Power Output:	1-5W programmable (Antenna port)
Duty Cycle:	5 W Continuous
Duplexer Bandwidth:	500kHz max (Max Tx/Rx/Rx)
Duplexer Loss:	1.5dB max loss (1dB typical)
FM Hum & Noise:	>40dB (12.5kHz) / >45dB (25kHz)
Spurious Emissions:	<0.25µW <1GHz
Sensitivity:	0.3µV for 12dB SINAD
P25 Sens. (5% BER):	-116dBm ( Model III only)
Intermodulation:	>65dB (ETS Method)
Selectivity:	25kHz >73dB / 12.5kHz > 65dB
Spurious Responses:	70dB (ETS)
Dimensions:	27.0 x 24.6 x 12.4 cm (10.62" x 9.68" x 4.87")
Model I Battery Life:	>6 hrs @ 5% 5W Tx duty cycle
Capacity (ambient 68F/20C)	3.3AH Gel Lead Acid
Model II/III Battery Life:	>12 hrs @ 10% 5W Tx duty cycle
Capacity (ambient 68F/20C)	8.8AH Li-Ion
Standard Weight:	<4.5Kg (10 lb)
Type Acceptance:	FCC, ETS300,Aust/NZ

## FEATURE MATRIX

PICO Model	I	II	III
P25 Transparent digital repeat			✓
Analog repeat	✓	✓	✓
8.8AH Li-Ion battery		✓	✓
3.3AH Gel lead acid battery	✓		
10-30V DC charging input		✓	✓
Universal AC input	✓	✓	✓
Transmit / standby indicator		✓	✓
Battery status indicator		✓	✓
Channel / mode	1	2	3
Black housing			✓
Yellow housing		✓	
Silver housing	✓		

## RDX FAMILY - SIZE COMPARISON



Pico Compact Advanced

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PROFESSIONAL GRADE