

Irukandji APCO-25 REPEATER/BASESTATION

Westel's Irukandji APCO-25 Repeater is a single ergonomic digital radio repeater/basestation, housed in a highly compact package. Only 2RU (88mm) high and designed for mounting in a standard 19" rack, the Irukandji incorporates P25 IMBE vocoding, P25 DES OFB Encryption and provides 2W and 4W line interfaces to tone based remotes and consoles, and PSTN interfaces.

The transmitter provides a 50W output and provision is made for an internal transmit/receive relay.

Powered directly from 12V and permitting a wide range of supply options the Irukandji is ideally suited for multiple channel installations. Programming and management is performed using powerful Windows® based configuration and diagnostics monitoring tools.

The Irukandji will be compatible with Westel's Trunkissimo P25 trunking platform and the web-based diagnostics and monitoring and Voice Over IP (VOIP) already available for Westel's DRB-25 P25 Dual Repeater/Basestation. The APCO-25 IPbased Fixed Station Interface will be available as a software enhancement.



136 - 174 MHz (VHF) Frequency:

380 - 520 MHz (UHF)

Frequency accuracy: Better than 0.5 ppm (0.1 ppm optional)

External reference input

As per EIA/TIA 603 (analog) and Maximum deviation, audio response and audio ANSI/TIA 102.CAAB (digital).

distortion:

Antenna impedance: 50 ohms

Dimensions: 483 mm (w) \times 89 mm (h) \times 485 mm (d)

Mass: 10 kg Power supply / 12 VDC

Consumption: Receive/Transmit: 25 W/165 W

Transmitter Performance

Output power: 50 W

Intermodulation 40 dB

attenuation:

Spurious and harmonic 67 dB

emissions attenuation:

Hum and noise:

>40 dB WB Analog: NB Analog: >34 dB Digital: Not applicable

Receiver Performance

Sensitivity (12dB SINAD): -118 dBm Sensitivity for BER 5%: -116 dBm

Signal displacement

bandwidth:

Analog: >40% of rated system deviation

Digital: 1 kHz

Intermodulation rejection:

Analog: >70 dB

Digital: >80 dB (per TIA102.CAAB Class A)

Spurious and image response rejection:

> Analog: 70 dB

Digital: 90 dB (per TIA102.CAAB Class A)

FM hum and noise:

WB Analog: 40 dB 34 dB NB Analog:

Digital: Not Applicable

Applicable Standards

Digital mode operation: ANSI/TIA102.CAAA/CAAB Analog mode operation: TIA / EIA 603/ AS/NZ 4295

EMI / EMC: NTIA Manual Chapter 5 /FCC part 15

PSTN line isolation: FCC part 68 (USA) **Encryption:** DES OFB (Type III)

WESTEL WIRELESS

Contact:

Westel Wireless Systems Suite 14, Level 1 23 The Corso, Manly, NSW 2095, Australia

f: + 61-2-9948 9832 p: +61-2-9948 6564

e: wws_sales@westelwireless.com