|GATE DATASHEET

iGate RG-2 is a family of an analog radio to IP systems converter. The converter suitable for conventional radio, tactical radio or ATC radio it can operate in many mode of operation and rich feature software function. The converter hardware and software are designed for 24/7 operation and it can interface with any radio manufacture. The VoIP of the converter base on EURECAE ED-137 protocol so it is very low audio latency and robustness.

FEATURE

- Dual Radio interface
- Operation mode 4W E&M to IP,IP to 4W E&M,Repeater Mode
- Fully complied with EUROCAE ED-137 VoIP
- EUROCAE SNMP radio control command for ATC radio
- RS232 Radio control command for conventional radio
- Radio control function Frequency,RF power,Squelch level,Modulation level
- 8 Radio connection each radio port
- Radio inactive to active activation
- Radio best signal selection
- NTP Client for time synchronization
- Static/Dynamic IP Configuration
- Unicast/Multicast Network operation
- Test tone over VoIP
- Built-in VPN Client
- Programmable PTT,COR signal logic and direction
- Float RX squelch signal for HF radio interface
- Embedded web server for monitor and configuration
- SNMPv3 for RCMS Host interface
- Supported codec G.711 , G729
- Dual Ethernet connection
- Quad core ARM A53 hardware platform
- Linux Operating systems
- Tested with R&S 4200,PAE T6 series 2,3,ICOM Transceiver
- Dual power source

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SPECIFICATION

VoIP Standard	EUROCAE ED-137
VoIP Connection	16 URIs
Radio Control protocol	Eurocae SNMP , RS232
Audio Codec	G.711 , G.729
Internal storage	32 GB
Local system information display	OLED 256x64
Radio I/O interface	DB15 Female
Balance Audio	4W E&M 600 Ohm Transformer coupled
Single-end Audio	10k Ohm
Audio Input/Output level	-30 to 10 dBm Software adjustable
Audio frequency response	300 Hz to 3.4 kHz , +/- 1dB
PTT Delay	Lessthan 20 milisecond
Best Signal resolution	0 - 5 VDC 16 Bits
Ethernet Connection	2 x RJ45
Time Reference	NTP/Internal RTC
VoIP Recorder	ED137C
DC source input	12 - 30 VDC XLR female
AC source input	90 - 230 VAC
Power consumption	25 Watts
Systems cooling	Passive
Mechanical dimension	1 HU Racks

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