DATA SHEET

iGATE RG-4

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iGate 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 EUROCAE ED-137 protocol so it is very low audio latency and robustness.

FEATURE :



- Operation mode 4W E&M to IP, IP to 4W E&M
- 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
- 4 Radio Interface
- Radio inactive to active activation
- NTP client mode
- DSP for voice processing
- ED-137 Best signal selection capability
- 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
- Web Socket for RCMS Host interface
- Supported codec G.711, G.729
- Dual Gigabit Ethernet connection
- 4 x RS232
- 4 x ADC 12Bit
- Nvidia Jetson Orin nano AI 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-137B
VoIP Connection	16 URIs
Radio Control protocol	Eurocae SNMP , RS232
Audio Codec	G.711 , G.729
Internal storage	250 GB NVME
Local display	OLED Graphic display
Balance Radio I/O interface	4 x RJ45 600 Ohm
Radio Control Port	4 x RJ45
Audio Output level	-10 to 30 dBm
Audio Input level	-10 to 30 dBm
Audio frequency response	100 - 5kHz , +/- 1dB
Ethernet Connection	2 x GBE
Time Reference	Hardware clock , NTP
RSSI ADC Resolution	12 Bit
Recorder	Internal / VoIP
DC source input	12 - 30 VDC XLR female
AC source input	90 - 230 VAC
Power consumption	25 Watts
Systems cooling	Long life Fan
Mechanical dimension	1 HU Racks

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