

# I GATE DATASHEET

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 EURECAE 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, C-ATIS, 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
- 15 Day internal voice recorder
- Radio inactive to active activation
- Internal precise RTC with Satellite synchronization
- NTP Server or client mode
- C-ATIS main and standby transmitter switch over programmable
- C-ATIS voice record 30 minute with auto playback when signal loss
- ED-137 Best signal selection capability
- Test tone over VoIP
- Built-in VPN Client
- Built-in speaker with volume control
- 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 Gigabit Ethernet connection
- Dual USB2 connection
- Nvidia Jetson 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-137
VoIP Connection	16 URIs
Radio Control protocol	Eurocae SNMP , RS232
Audio Codec	G.711 , G.729
Local control	Encoder
Internal storage	32 GB
Local display	OLED Graphic display
Balance Radio I/O interface	DB15 Impedance 600 Ohm
Audio Output level	-10 to 30 dBm
Audio Input level	-10 to 30 dBm
Audio frequency response	100 - 5kHz , +/- 1dB
USB Connector	2 x USB
Ethernet Connection	2 x 1 GBE
Time Reference	Hardware clock , NTP,Satellite
GNSS	GPS,GLONASS,GALILEO
RSSI ADC Resolution	12 Bit
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



# IGATE DATASHEET

