DATA SHEET

iCON+

Radio Controller

iCon+ is a radio dispatcher and controller for radio communication systems such as Air traffic control, Radio communication. The controller hardware architecture is based on Nvidia AI computer for modern graphic user interface software and can be implemented a neural network into this controller. iCon can be used with different radio transceiver manufacturers because it can communicate any technique in EUROCAE ED-137 protocol.



FEATURES

- Fully compliant with EUROCAE ED-137 VoIP
- EUROCAE SNMP radio control command for ATC radio
- Proprietary SNMP MIB file support

- Radio control function: Frequency, RF power, Squelch level, Modulation level
- Radio parameter display: RSSI, Frequency, TX power, Go/NoGo, Tx/Rx, VoIP

- 10 simultaneously radio channel control up to 32 SIP URIs
- Balance 4W E&M connection for analog non IP radio
- Radio inactive to active activation

- Dark mode graphic user interface
- Nvidia Xavier NX AI computer hardware
- Linux operating systems
- Fanless passive cooling

- 3 Type of user login with separate password protection
- IPS LCD 15" with capacitive touch screen 1080x1920 resolution

- Communication event logging and Audio recording
- Local configuration on the front panel touch screen GUI
- Embedded web server for monitor and configuration
- SNMPv3 for RCMS Host interface

- Supported codec G.711, G.729
- Individual volume control for handset headset speaker with minimum setting
- External speaker connector

- Dual Port Gigabit Ethernet, 2xUSB connection
- Desktop console and rack mounting
- Built-in Microphone and speaker
- Handset, desktop, headset connector

- Front panel encoder volume control knob
- Up to 500 Hours audio recording memory
- Handset and headset sidetone volume configurable
- Dual source connector 12-25 VDC and 110 - 230 VAC with AC adaptor

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Radio Controller



SPECIFICATION

VoIP Standard	EUROCAE ED-137B
VoIP Connection	32 URIs
Radio Control protocol	Eurocae SNMP
Radio frequency control	100 - 500 MHz
Audio Codec	G.711 , G.729
LCD Resolution	1920 x 1080 P
LCD Type	IPS 15"
Analog Radio interface	RJ45 600 Ohm
Analog line output	0 - 10V @600Ohm
Analog line input	0 - 10V @600Ohm
Handset/desktop connector	RJ45
Headset Connector	Lemo 8 pin and 10 pin
Ethernet Connection	2 x GbE
Internal audio power	4 Watt x 2
External audio power	5 Watt
Time Reference	Hardware clock , NTP
Storage memory	250Gb NVME Gen 3
OS memory	16Gb eMMC 5.1
Systems memory	8GB LPDDR4
Hardware platform	Jetson Xavier NX
Processor	ARM V8.2 64 bit 6-Core @1.9GHz
GPU	CUDA 384 Core , Tensor 48 Core
Operating systems	Linux
Mechanical dimension	260 x 340 x 50 mm

Contact

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