

ICON+ DATASHEET

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

FEATURE

- Fully complied 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
- 3 Type of user login with separate password protection
- Fan less passive cooling
- 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 , G729
- Individual volume control for handset headset speaker with minimum setting
- External speaker connector
- Dual Port Gigabit Ethernet , 2xUSB connection
- Desktop console and rack mounting
- Build-in Microphone and speaker
- Handset , desktop , headset connector
- Front panel encoder volume control knob
- Up to 500 Hours audio recording memory
- Hand set and head set side tone volume configurable
- Dual source connector 12-25 VDC and 110 - 230 VAC with AC adaptor

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SPECIFICATION

VoIP Standard	EUROCAE ED-137
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	Limo 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



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