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IFZ COMPANY LIMITED
DATASHEET

iCON NANO

Voice Terminal

7"



4 VoIP Radio Channels
Supports 4 simultaneous VoIP radio channels.

7" QLED Touch Display
1024x600 capacitive touch screen with dark mode GUI.

Local PTT / Encoder
Front-panel local PTT and encoder control.

Network Connectivity
Gigabit Ethernet for reliable data and remote control.

Audio I/O
Built-in microphone and speaker with headset & handset connector.

Web-Based Monitoring
Embedded web server for monitoring and configuration.

Thermal Management
Thermal improvement for outdoor application

Internal Storage
Built-in 250 GB internal storage for event logs and audio recordings.

Jetson Orin Nano Platform
NVIDIA Jetson Orin Nano hardware platform with Linux operating system and fanless passive cooling.

Event Logging & Audio Recording
Communication event logging and audio recording supports recording for more than 60 days.

COMPACT VOIP RADIO CONTROLLER

Reliable radio control, audio communication, and network connectivity for modern communication systems.

iCon Nano is a radio controller for radio communication systems such as security, public safety, and amateur radio applications. It controls radio transceiver parameters for various radio types and connects voice signals from the controller to transceivers using modern VoIP technology.

Audio Features

Integrated DSP: Advanced Digital Signal Processor for real-time, high-performance voice processing.
Active Noise Suppression: Intelligent microphone noise cancellation to eliminate background and ambient noise.
Automatic Gain Control (AGC) / Auto Volume Control: Automatically adjusts voice reception and transmission levels for optimal, crystal-clear audio quality



SPECIFICATION

VoIP Standard	EUROCAE ED-137
Radio Control Protocol	Serial, SNMP
Audio Codec	G.711, G.729
Handset/Desktop Connector	RJ45
Ethernet Connection	100/1000
Wifi Connection	Wifi 6
Internal Speaker Power	5 Watt
Time Reference	Hardware clock, NTP
System Memory	8 GB
Internal Storage	250 GB
Recording Capacity	More than 60 days
Hardware Platform	Jetson Orin Nano
Processor	ARM Cortex-A78AE 6-Cores @ 1.5GHz
GPU	CUDA 512 Cores, Tensor 16 Cores
Operating System	Linux
Power Input	9-30 VDC
Mechanical Dimension	250 × 160 × 75 mm