

# Mobile, Deployable Interoperable Communications



Level 3 (Mobile Mount)  
ICE 24 System

Various Configurations  
Available:

- LEVEL 1 (Man Pack)
- LEVEL 2 (Portable)
- LEVEL 3 (Mobile)
- LEVEL 4 (Semi-Fixed)

## Technical Specifications



### Capabilities

- Supports up to 500 users\*
- Coverage Areas: 10 sq miles with MESH network
- SATCOM bandwidth costs included
- 98% Compatible with any LMR System

### ICE 24 Standard Features

- Interoperable Communications Suite
- Cisco Wireless Ethernet Routers
- Citizens Band Radio Interface
- Satellite Modem and Antenna Controller
- 360° Directed Sector WiFi Base Antenna (Free standing or Mobile Mount)
- (5) Portable WiFi MESH Network Coverage Extenders
- Small, lightweight 4RU Hardware Footprint
- (4) Land Mobile Radio Interfaces (Legacy LMR System Compatible)

### ICE24 Core System Specifications

- Audio Input: Balanced or Unbal 600 ohms or Hi-Z; -26dBm to +12dBm levels; 100Hz to 3200 Hz.
- Audio Output: Balanced or Unbal 600 ohms; -26dBm to +12dBm levels; 100Hz to 3200 Hz.
- Digital I/O: COR/Squelch and AUX inputs, PTT, and AUX outputs; E&M input/output.
- SIP Network Interface
- Telephone Line Interface
- Phone Line: RJ-11 Connectors (2); -24 dBm to 0 dBm levels.
- RoIP Interface (Radio over IP)
- Network Interface Type: 10/100BASE-T Ethernet, 100Mbps; RJ-45 Connector
- AC Input Power : 115 to 230 VAC + 15% 47-63Hz, 80VA Typical, 100 VA Maximum
- DC Input Power : +11 to +15 VDC @4A Nominal
- Temperature : Operating: -20 to +60 degrees C. Storage: -40 to +85 degrees C

### Satellite Communications On-The-Move Antenna Specifications

- Operating Band Rx: 10.95-12.75 GHz
- Configurations: 11.7-12.20 GHz / 2.25-12.75 GHz/ 10.95-11.7 GHz
- Operating Band Tx: 13.75-14.5 GHz
- Tracking Linear Polarization
- Tx Gain: 35.8 dBi @ 70° elevation
- G/T (mid-band): 12.7 dBi/K @ 70° elevation
- EIRP (mid-band with internal 8W BUC): 44.5 dBW @ 70° elevation
- Operational Temperature: -20C to +55C
- Storage Temperature: -30C to +70C
- Humidity: up to 100% condensing
- Altitude: Operational: up to 10,000 feet, Non-Operational: up to 35,000 feet
- Integrated Antenna Control Unit & BUC
- Supports Horizontal & Vertical installations. Vehicle mounting: rack or surface
- Signal acquisition and lock: Initial: <60 seconds
- Tracking speed: >120°/sec & 120°/sec<sup>2</sup> (Azimuth & Elevation)
- Re-acquisition after blockage: <1 second
- Weight: ~ 93 lbs.
- Compatible with any Ku-band satellite
- Modem Agnostic

### Power Requirements

- Standard vehicle DC power or AC Generator (Option)
- Renewable Energy Enabled



**Rivada Networks**

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866.417.9993

# Communications Anywhere, Anytime...Anyway You Want

Cellular, VoIP, RF, WiFi, WIMAX, SATCOM

## TECHNICAL SUPPORT

Rivada Networks provides a 24 hour Customer Support Hotline to service any technical issues which may arise

## ZERO DOWNTIME

Service Plans are available to ensure equipment is always maintained in top condition and ready for use.

## OPTIONS AVAILABLE

- WiFi Capable Cellular Phone Packages
- Commercial Cellular Service (requires spectrum)
- Portable, whisper-quiet AC generators
- On the pause, self-acquiring VSAT Antenna
- Wireless Remote Surveillance Cameras
- CAMMS Incident Command Software
- Virtual Agility Incident Response Web Portal
- Critical RF IP LMR
- First Responder Ruggedized Wireless/Bluetooth Devices
- Long Endurance Communications Aerostat for Range Extension

For more information on any of our products or services please visit us on the Web at:  
[www.rivada.com](http://www.rivada.com)

## Service Features and Benefits



Each ICE24 system comes complete with everything a First Responder will need to communicate\*. Initial training is provided and complete documentation accompanies every system. A 24/7 customer support line to the Network Operations Center is available. The system is easy to learn and even easier to operate. The small, low power consumption footprint makes this system ideal for mobile or portable applications. The system enables responders to have their own, private and secure cellular phone VoIP system together with high speed internet and enhanced LMR service. The benefits include GPS Location based services for all personnel at the scene, the ability to maintain both a personal cell phone directory and a dynamic directory of incident personnel which is updated in real time.

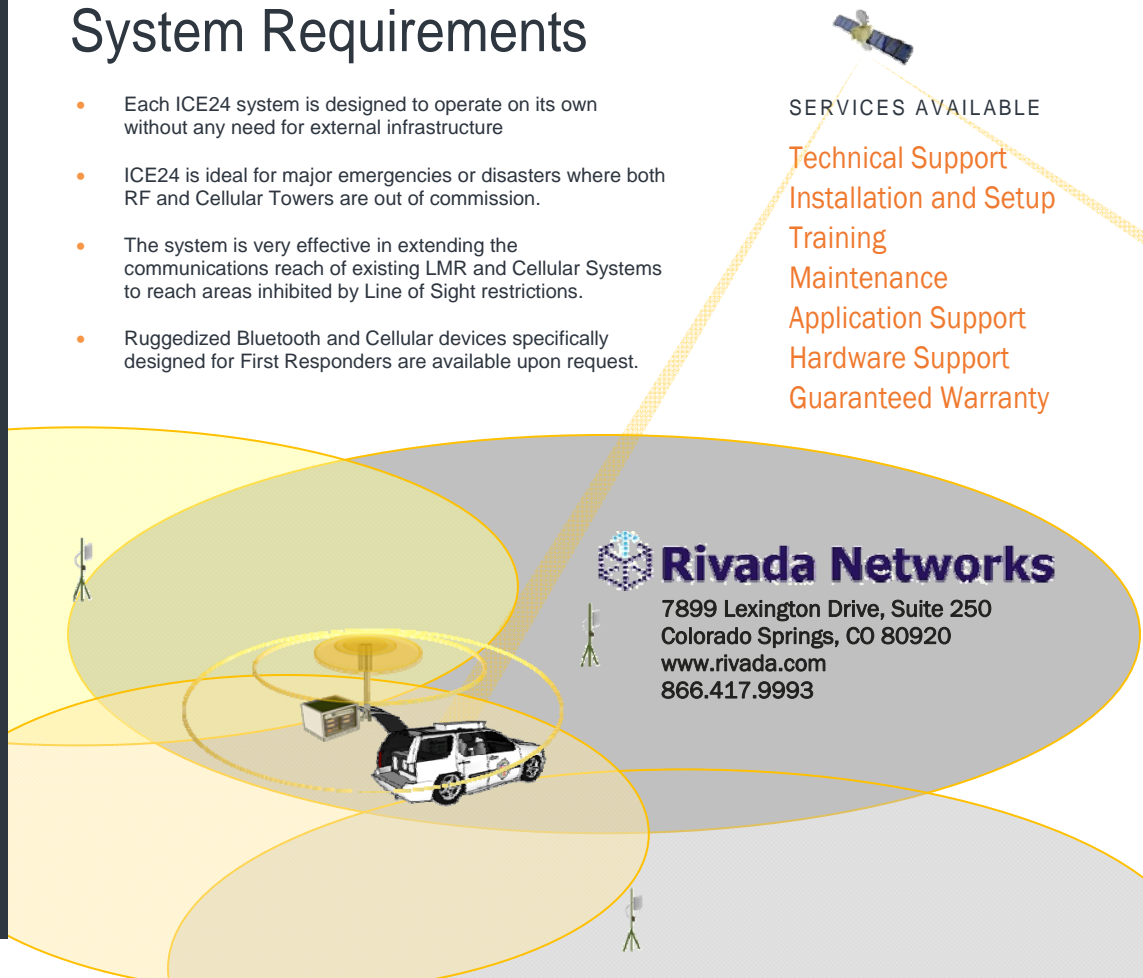
\* Cellular phones used with the ICE24 system must be dual WiFi/Cell capable (there are hundreds of approved handset types available) and be provisioned to operate on the ICE24 System as part of the Emergency Communications Partnership. Each ICE24 system comes complete with 50 provisioned cellular phones that can be put to use right away. Other phones will be serviced over the air via a service portal which will be provided to customers.

## System Requirements

- Each ICE24 system is designed to operate on its own without any need for external infrastructure
- ICE24 is ideal for major emergencies or disasters where both RF and Cellular Towers are out of commission.
- The system is very effective in extending the communications reach of existing LMR and Cellular Systems to reach areas inhibited by Line of Sight restrictions.
- Ruggedized Bluetooth and Cellular devices specifically designed for First Responders are available upon request.

## SERVICES AVAILABLE

Technical Support  
Installation and Setup  
Training  
Maintenance  
Application Support  
Hardware Support  
Guaranteed Warranty



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