



PRIVATE LTE RADIO SYSTEM



Build Your Own Communication System with Private LTE Radio

- **Flexible and Fully Controlled Network**
- **Highly Secure and Robust Connectivity**
- **Experience Minimal Congestion**



Secure Dedicated Communication: On-Premise Deployable Private LTE Radio System for Push-to-Talk Communication

Dedicated Secure Communication for Public Safety and Military



Icom's private LTE radio system places a dedicated radio control server within the customer's private network environment without the use of cloud computing. This setup ensures robust autonomy and secure communication. System owners/operators maintain strict control over the system, safeguarding their sensitive information.

Efficient Connectivity for Large Construction Sites



In wide-area construction sites like road development projects, private LTE deployment is often a necessity due to the absence or heavy loading of commercial LTE. As the project progresses, the private LTE base stations (eNodeB) can be flexibly built out or relocated to adjust coverage.

Real-time Connection for Factory and Plant Industries



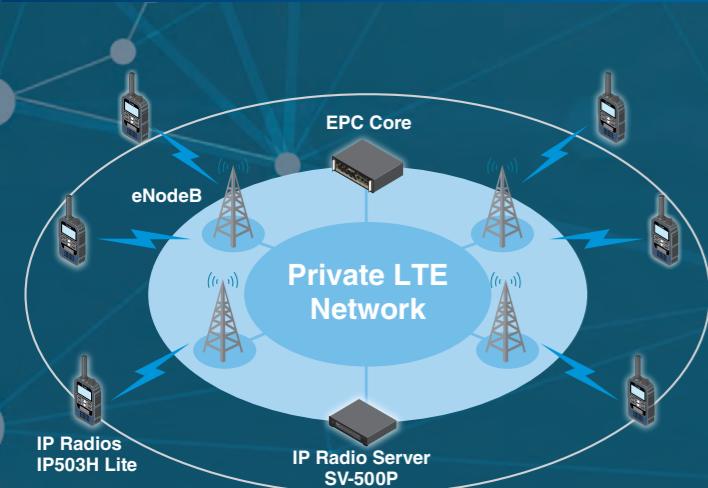
In crucial industries such as factories and plants, uninterrupted communication is essential for nonstop operation. LTE surpasses other wireless options in security with robust hardware management of encryption keys. Its autonomy and stability outshine in comparison, and is less susceptible to interference from external sources.

Push-to-Talk Communication for Stadium and Outdoor Events



In stadiums and large outdoor events with thousands of fans, the strain on commercial LTE from customer usage can lead to congestion. To alleviate this, portable private LTE installations, coupled with the utilization of private LTE radios during events, can streamline communication among staff members.

Private LTE Radio System Features



Build Your Own Communication System with Private LTE Radio

- Operates in an independent communication environment, minimizing interference as you control the frequency band
- Network coverage can be independently managed and adjusted
- Dedicated transceiver-style PTT devices and appliance server for easy deployment and low maintenance
- Features SIM-level encryption for high-security
- Supports smartphone connectivity and existing app integration
- Internet connectivity is optional and available

IP503H Lite IP Radio Features



IP503H Lite
IP Transceiver

Dual SIM LTE Radio with Simultaneous TalkListen™

- Simultaneous TalkListen™ provides telephone-like full-duplex communication and works with or without an external headset
- Toll-quality voice at lower data rates and 900 mW of clear, loud audio
- Built-in Bluetooth® capability for wireless microphone/headset connection
- IP67 dust-tight and waterproof design
- Dual SIM capability for switching between private LTE or commercial LTE
- Dedicated Emergency button, Lone Worker and Man Down functions



SV-500P IP Radio Server

SPECIFICATIONS

SV-500P

Power supply requirements	AC adapter (100 ~ 240 V AC) Less than 23 Watts
Usable environment	Temperature 0°C ~ +40°C; +32°F ~ +104°F Humidity 5 ~ 95% (at no condensation)
Dimensions (Approximate) (* Projections are not included.)	213 (W) x 36.8 (H) x 242 (D) mm; 8.4 (W) x 1.4 (H) x 9.5 (D) in
Weight (Approximate)	1.4 kg; 3.1 lb
LAN	RJ45 connector (2.5GBASE-T/1000BASE-T/100BASE-TX)
USB	USB 3.0 Type-A x 1
Maintenance console	USB 2.0 Type-C x 1
Regulatory compliance	FCC Part15 Subpart B Class B, EN55032/EN55035/EN 61000-3-2/EN 61000-3-3/ EN62368-1/EU2015/863RoHS
Tested Private LTE	JRC Tactical LTE BOX Validation test is required for other private LTE systems. Contact Icom sales for details.

* Required specifications are subject to change without notice.

Highly Secure Appliance Server

The server has up to 200 units of device loading capacity and supports simultaneous transmission for up to 100 units

Since the server can be installed within a private LTE network, there is no need to consider the Internet connection

One-time investment in hardware and equipment provides a predictable cost structure

AES encryption and user authentication for secure communication

User provisioning function automatically updates user settings and call list over the air

OPTIONAL ACCESSORIES

19-inch Rack Mounting Bracket



MBF-6

AC Adapter



Either BC-207S
or BC-236

Recommended Private LTE Base Station JRC Tactical LTE Box



JRC Tactical LTE box is an all-in-one solution that provides tactical communication in the field. It is designed for public safety, military, disaster recovery and many other users.

Tactical LTE Box

- Supports 128 active users
- 2 Rx & 2 Tx, @5/10/20 MHz BW
- High power radio capacity 2 x 20 W
- Weight: 16 kg
- FDD: Band 28 supported
(For other bands and national certifications, consult with Icom Sales for details)
- Input Power: DC +12 V to +33 V (Typical +24 V)
- Operation Temperature: -32°C to +49°C

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