



PRIVATE LTE SOLUTIONS

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connectivity
everything
everywhere





Anywhere, Anytime, Constant LTE Connectivity

Private Network

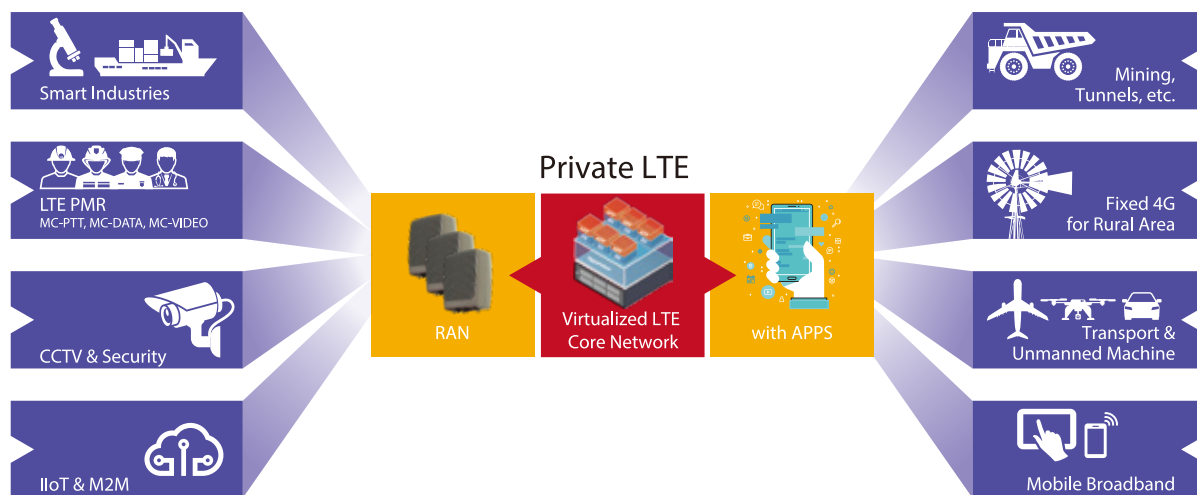
- Smart metering
- Maritime communication
- Mining / Oil rigs

Public Safety

- Emergency / First responder
- Ad hoc / Standalone
- Surveillance

Wireless ISP

- High speed internet
- Complete solution
- Pay as you Grow

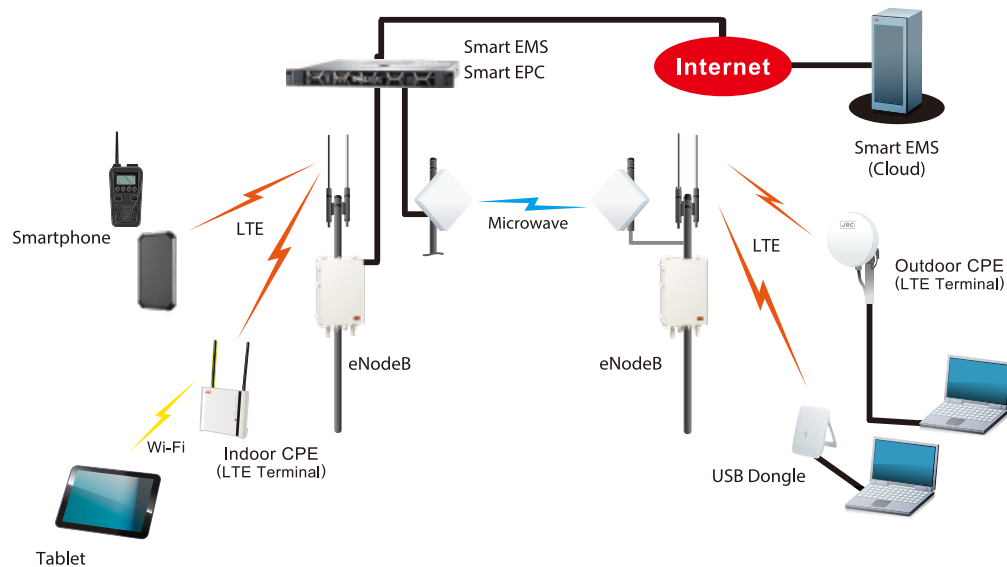


Tactical LTE BOXTM

- Lightweight ruggedize system
- Single box solution
- Operated independently within an existing cellular wireless coverage
- Supports several standard LTE frequencies and several bandwidth capacities
- Suitable for both stationary and on the move implementations
- Pre-equipped with applications such as MCPTT, Voice gateway to allow voice, video, text and file transfer capabilities
- Ability to host the customer private application



Basic System Configuration



Smart EPC



- Complete LTE core system - Integrated full-turnkey solution
- Support from 50 to hundreds of thousands of subscribers
- Virtualized and distributed system enable highly resilient and scalable network
- Minimized configuration with user-friendly interface
- VoLTE / IMS / eMBMS support
- Interface to external billing system

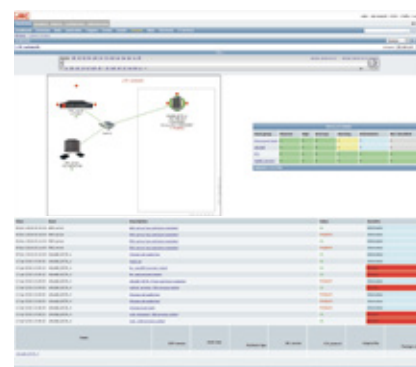
eNodeB



- All-in-one base station - BBU & RRU in a single box
- Small and light weight, outdoor installable
- Easy deployment and flexible mounting options
- Both TDD and FDD support
- Tx power - Up to 20W per antenna
- 2x2 MIMO
- Configurable baseband parameters
- various bandwidth & frequency operation support

Smart EMS

- Remote network management system for eNodeB, EPC, UE, and other network elements
- Cloud base, on-premise
- Customizable dashboard
- Geographical network topology and visualized network performance
- Intelligent fault detection and notification
- Automatic software upgrade for all elements
- Configuration and log management
- Account and security management



System Specifications

Item	Description
LTE Band Classes supported	1 / 2 / 3 / 4 / 5 / 7 / 8 / 12 / 13 / 17 / 20 / 28 (FDD) 39 / 41 / 42 / 43 (TDD) For other Band Classes, Please contact us.
Band Width	5 / 10 / 20 MHz
Transmission Power	2x1W / 2x5W / 2x10W/ 2x20W
User Interface	Web GUI (EPC/eNodeB/EMS)

Products Specifications

Tactical LTE Box

Support 128 active users
2 Rx & 2 Tx, @ 5/10/20MHz BW
High Power Radio Capacity 2 x 20 W
Weight: 16kg
FDD: Band28 supported (For other band, check with JRC)
Input Power: DC: +12V ~ +33V (Typical +24V)
-32°C to +49°C Operation Temperature

eNodeB

2 Rx & 2 Tx MIMO
2x1W - 2x20W configurable TxPower
support 5 / 10 / 15 / 20 MHz operation bandwidth
Peak rate 150Mbps@DL, 50Mbps@UL
with 20MHz spectrum (FDD)
Maximum 256 active users (FDD)
Natural convection cooled
-40 to +55 °C operation
IP66 compliant
1Gbps Ethernet backhaul

Applications

MCPTT Software INSIGHT-MCX

- 3GPP MCX Release 15 Compliant
- MCPTT, MCVideo and MCData
- Integrated Map Server, Emergency Alert on Map

Interference Management

Dynamic Frequency channel Assignment (DFA)^{TM*}
Interference Avoidance Power Control (IAPC)^{TM*}

Multi Bubble Communication (MBC)^{TM*}

Inter-cell ship to ship communication
Inter-cell vehicle to vehicle communication
Dynamic topology change detection
Dynamic routing calculation

*patent pending

• Specifications may be subject to change without notice.

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