

## OPEN RAN SOLUTIONS

Revolutionizing Outdoor Networks with Open RAN RRU Excellence

### Breaking Free from Vendor Lock-In: The Rise of Open RAN

In traditional RAN setups, proprietary interfaces tightly link all RAN kits from the same vendor. This approach locks operators into specific vendors, limiting competition, innovation, and price flexibility. This vendor lock-in has been a long-standing challenge for MNOs.

Open RAN changes this by open interfaces, allowing components from different vendors to work together. This approach gives MNOs more freedom, promotes innovation, and creates a more competitive market.

As more tier-1 MNOs mandate the inclusion of Open RAN in their networks, significant growth is expected. Current projections estimate that **Open RAN's share** of the total RAN market will **increase from 4% today to 30% by 2030**.

### What Value Does Open RAN Bring to MNOs?



#### Eliminating Vendor Lock-In

MNOs can mix and match components from different vendors, avoiding dependency on a single supplier.



#### Lower RAN Kit Replacement Costs

Unlike traditional RAN upgrades, Open RAN allows operators to replace only specific components without overhauling the entire system, reducing capital expenditures.



#### Driving Innovation

By opening the ecosystem, Open RAN encourages new entrants to develop cutting-edge solutions, enhancing network performance and capabilities.



#### Enabling Intelligent Networks

Open RAN supports the integration of advanced technologies, such as AI-driven network optimization and edge computing, creating smarter and more adaptive networks.

### Comba Offers ORAN Compliant Radios Designed to Meet the Market Needs:



#### Service Parity

Seamless support for legacy radio access technologies (RAT) to ensure compatibility with existing networks during the transition to Open RAN.



#### High Energy Efficiency

Our products achieve energy efficiency that is on par (in certain case, better) with traditional RAN solutions, contributing to sustainability goals and cost savings.



#### Ease of Operation and Management

Simplified deployment and management processes, enabling operators to reduce complexity and operational overhead.



#### Great Interoperability

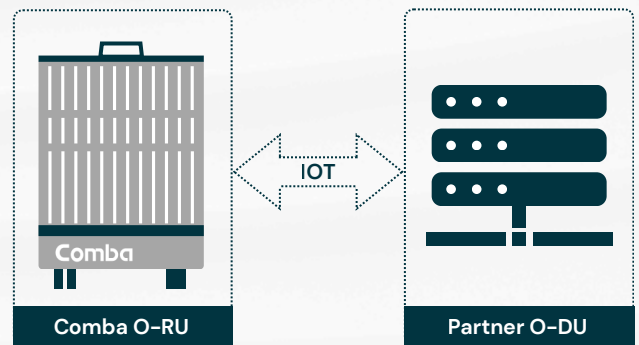
Robust support for multi-vendor interoperability, ensuring smooth integration and performance across diverse network components.

## E2E IOT (Inter-Operability Test) Connecting the "Nodes"

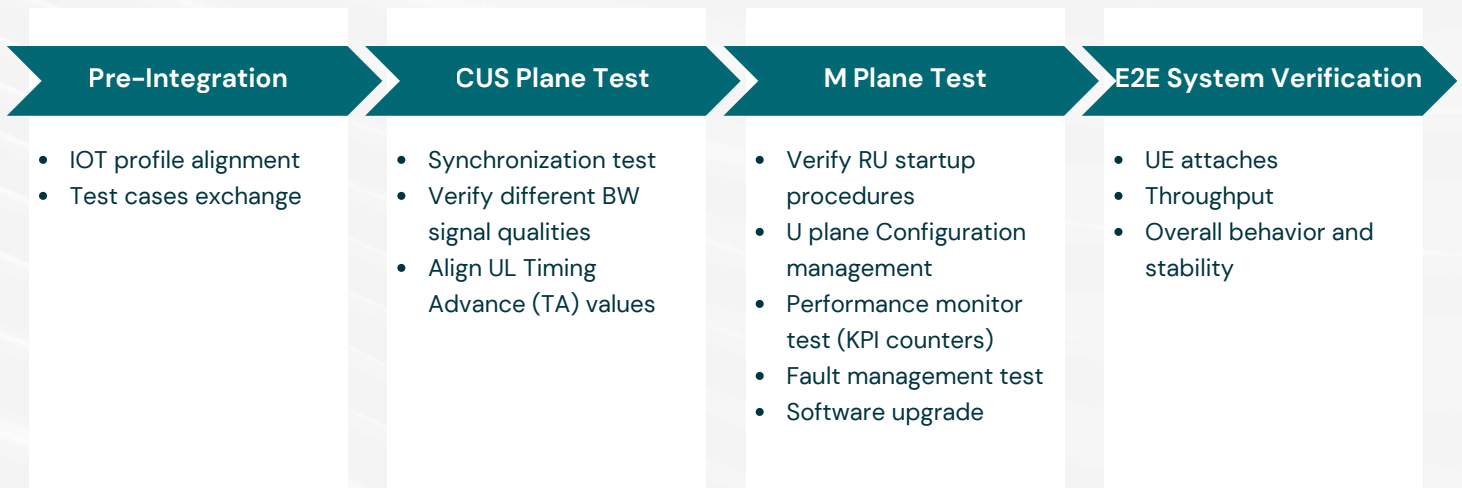
In Open RAN, having a pre-integrated solution that seamlessly combines the CU, DU, and RU from different vendors is critically important for creating a complete and efficient RAN solution.

With our extensive experience in Open RAN interoperability testing (IOT), we help our partners and customers ensure smooth trials and deployments.

To date, we have successfully completed IOT with 8 software partners and contributed to over 25 field trials and commercial deployments.



### Typical IOT Process Workflow:



## Comba O-RU Features Highlight

The diagram features three Comba O-RU units arranged around a central 'openradio' logo. The logo consists of a circle with three dots and the text 'openradio' below it.

- Open Fronthaul with Multi-vendors Support
- ORAN Compliant and TIP-Approved
- High Energy Efficiency
- Rich Portfolio
- Award-winning Patents
- Multi-RAT Support
- Field Proven
- Software-defined Radio
- NB-IoT & LTE-M

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Advanced O-RU Platforms



**RRU-3510**

### Single Band Macro O-RU

- Supports LTE/ GSM/WCDMA/NR/NB-IoT/LTE-M
- 4T4R / 2T2R
- Up to 60W per Tx
- Option 7-2x Cat A

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ORAN Compliant Radio

### Dual-Band Macro O-RU

- Supports LTE/ GSM/WCDMA/NR/NB-IoT/LTE-M
- 4T4R / 2T2R
- Up to 40W per Tx
- Option 7-2x Cat A



**RRU-5820**



**RRU-5821**

### Tri-Band Macro O-RU

- Supports LTE/ GSM/WCDMA/NR/NB-IoT/LTE-M
- 2T4R / 2T2R
- Up to 60W per Tx
- Option 7-2x Cat A

### Single Band Micro O-RU

- Supports LTE/NR
- 4T4R
- Up to 10W per Tx
- Option 7-2x Cat A
- Lightweight, slim and sleek design



**RRU-5130**



“ The TIP Requirements Compliant Ribbons awarded to Comba Network demonstrate their product maturity. We are excited to see an expansion in TIP-compliant hardware product line, and hope that more products and solutions with open interfaces emerge to enrich the ecosystem. ”

**Enabling Communication to Connect People.**  
 Visit our website or contact our representative for more information: [www.comba-telecom.com](http://www.comba-telecom.com)

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