



# OPEN RAN SOLUTION



**Remote Radio Unit**  
Single Band  
Multi Band

**Comba**



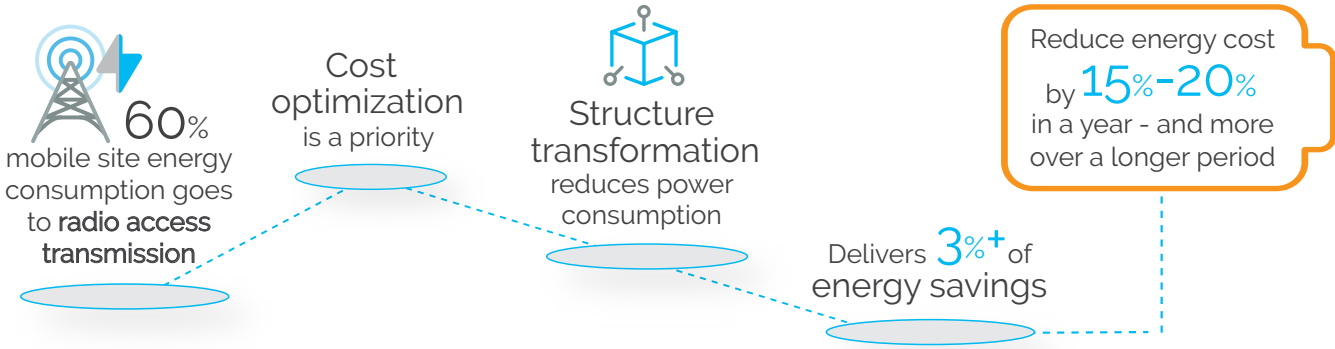
It is expected that in 2030, total spending on Open RAN radio units (RUs) for the public outdoor macrocell network will reach US\$69.5 billion and for enterprise indoor small cell network will reach US\$39.8 billion respectively.<sup>1</sup>

## Optimizing the cost of 5G RAN

The challenge in 5G, which requires a revolution in network design and architecture, is to build an infrastructure that can meet diverse service needs, at the same time, cost-effectively.

A recent report indicated that carriers have recently shifted their focus from building the business case for 5G services to optimizing the cost of 5G. Using open implementations enables sharing of network ownership and costs, which can further reduce RAN TCO (Total Cost of Ownership) by up to 40%.<sup>2</sup>

### Significant step in enabling cost-effective 5G RAN deployments

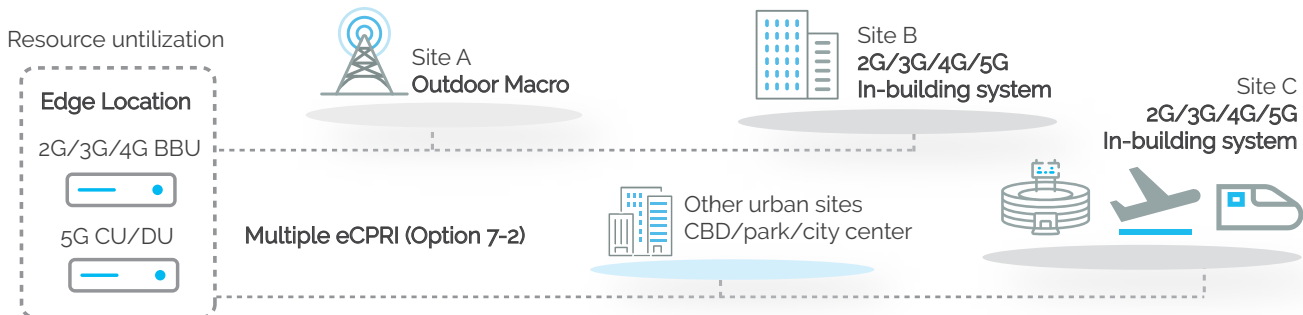


## Opening interface within legacy hardwares

Evolving along with the RAN technology, Comba's best-in-class high power remote radio unit (RRU) is structured with high efficiency, multi-RAT, multi-carrier product features to offer open interfaces to the baseband unit (BBU) and the operation and management (OAM) interface to simplify interoperability between suppliers.

Comba's RRUs are compatible with major partners providing virtualized CU/DU functions in Open RAN ecosystem. They are the cost-efficient, energy-conserving, easy-to-install, and maintenance-free radio solutions that help customers cut its cost in both CAPEX and OPEX.

### Open RAN and virtualization enabling resource pooling



Sources:  
 1 - Two analysts predict Open RAN will dominate market by end of decade, Mobile Europe, 22 October 2020  
 2 - Accelerating 5G virtual RAN deployment, <https://www.design-reuse.com/articles/48029/accelerating-5g-virtual-ran-deployment.html>  
 The case for committing to greener telecom networks, Technology, Media and Telecommunications, McKinsey & Company, 26 February, 2020

# Global ORAN Radio Industry Leader

Comba's **openradio™** is well known for its outstanding performance while maintaining low levels of power consumption and noise figure for better receiver sensitivity. With the best performing, cost effective, highly reliable, software upgradable and flexible radio solutions, Comba's future-proof **openradio™** solution reduces total cost of ownership (TCO) for operators and neutral hosts in 5G deployment.

Minimizing  
**Cost**  
through



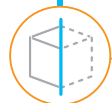
### Energy saving

from radio's low power consumption



### Improved coverage/ throughput

due to better receiver sensitivity



### Smaller footprint

Reducing

- cabling complexity by **50%**
- site space and rental cost
- tower loading with light weight
- wind load requirement



### Easing maintenance

with improved MTBF\* performance  
\*Mean time before failure

The latest **openradio™** product portfolio has added more bands to both high power and lower power radios, which will provide customers with a complete solution for all applications such as rural area or suburban coverage, in-building coverage/capacity improvement and private network, and the like.



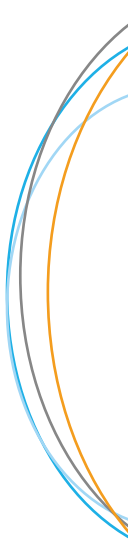
### Single band



### Multi-band

	Single band	Multi-band
<b>Technology</b>	LTE/ UMTS/ GSM/ NR	LTE/ UMTS/ GSM/ NR
<b>TRx Configuration</b>	4T4R/ 2T2R	4T4R/ 2T4R
<b>Power</b>	60W/ 40W per Tx	60W/ 40W per Tx per band
<b>Frequency</b>	<b>Band 1, 3, 7, 8, 20, 28, 71</b>	<b>Band 1 + 3 Band 28 + 20 + 8</b>
<b>Capacity</b>	<b>LTE</b> Up to 2 carriers (5/10/15/20 MHz) <b>UMTS</b> Up to 4 carries <b>GSM</b> Up to 4 carries <b>5G</b> Up to 2 carries	<b>LTE</b> Up to 4 carriers (5/10/15/20 MHz) <b>5G</b> Up to 4 carries
<b>BBU interface</b>	eCPRI (10GE) (Option 7-2x, Option 8)	eCPRI (10GE) (25GE) (Option 7-2x, Option 8)

The above product information is for reference only, please contact our representatives for more information .



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