

# Wavereach High Power Remote Radio Unit

RRUWR-B14T4R

Single Band | Band 1 4T4R | 160W Power Output

eCPRI/O-RAN Interface



## Product Features

- **Operation Bandwidth:** 60MHz
- **High RF Power:** 4T4R with 40W per port per band
- **Industry Standard Compliant:**
  - ✓ eCPRI: 10GE, 2 SFP+ ports
  - ✓ O-RAN split option 7.2x
- **Multi-Carriers Support**
- **Compact Design:** Lightweight, small form-factor and energy efficient
- **Rugged Enclosure:** IP67 for outdoor use
- **User-Friendly GUI:** Easy maintenance and configuration

## Product Description

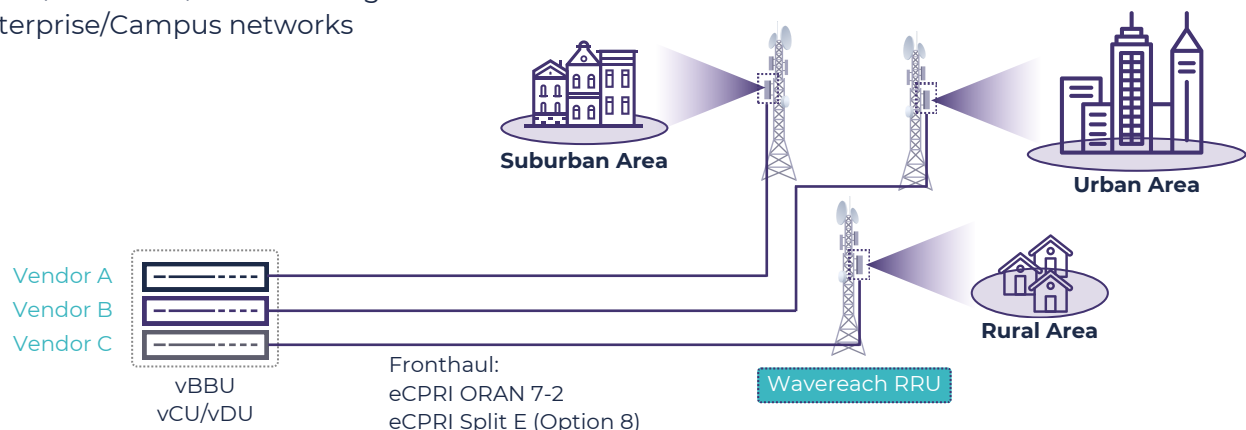
The **Band 1 4T4R High-Power RRU**, a key component of Wavereach’s cutting-edge Open RAN radio portfolio, designed for flexible RAN deployment. With efficient multi-carrier power amplifiers and a compact design, this RRU ensures durability and reliability, delivering high performance across various deployment scenarios.

Featuring Multi-TRX technology, the RRU enables 4T4R and 2T2R configurations for greenfield deployments and capacity upgrades in both indoor and outdoor environments. Wavereach’s RRU series supports multiple Radio Access Technologies (Multi-RAT), including LTE, GSM, WCDMA, NR, NB-IoT, and LTE-M, ensuring strong performance under diverse conditions.

This solution allows mobile service providers to implement Open RAN with a minimized total cost of ownership, faster deployment, simplified upgrades, and consistent service quality.

## Application Scenarios

- Mobile broadband for Data/Voice services
- Urban/Suburban/Rural coverage
- Enterprise/Campus networks



## Technical Specification

Radio Specification		
<b>Technology</b>	LTE/UMTS*/ NR*	
<b>TRx Configuration</b>	4T4R	
<b>Operation Bandwidth</b>	60MHz	
<b>Instantaneous Bandwidth</b>	60MHz	
<b>Occupied Bandwidth</b>	40MHz	
<b>Capacity (per antenna port)</b>	LTE	Up to 2 carriers (5/10/15/20 MHz)
	UMTS	1 carrier
	UMTS+LTE	1 carrier (UMTS) + 1 carrier (LTE)
<b>Operating Frequency</b>	UL: 1920MHz - 1980MHz DL: 2110MHz - 2170MHz	
<b>Interface to BBU</b>	eCPRI (10GE): O-RAN split option 7.2x support eCPRI split E (Option 8) support	
<b>Output Power per Tx</b>	40W	
<b>ACLR</b>	Compliant with 3GPP TS 37.104	
<b>Transmitter Spurious Emissions</b>	Compliant with 3GPP TS 37.104	
<b>EVM</b>	Compliant with 3GPP TS 37.104	
<b>Noise Figure</b>	Typical: 2.7dB	
<b>Blocking Features</b>	Compliant with 3GPP TS 37.104	
<b>Receiver spurious emissions</b>	Compliant with 3GPP TS 37.104	
<b>Interface</b>	ANTI-4	4 x 4.3-10 Female
	OPTI-2	2 x SFP/SFP+
	Power	DC -48V
	RET	DIN 8 Female (AISG 2.0) via extension cable
	MON	DIN 6 Male via extension cable
	Debug	Mini-USB (Ethernet over Mini-USB via LMT cable)
	GPS	Optional, N-Type Female, GPS Bands customized
<b>LED Indicator</b>	PWR	Power Running Status
	RUN/ALM	System Running Status
	ACT	PA Running Status
	VSWR	Channel Running Status
	OP1	Optical Module Running Status
	OP2	Optical Module Running Status

Electrical and Mechanical Specification	
<b>Volume</b>	13.8L (400mm x 300mm x 115mm)
<b>Power Supply</b>	DC -57.6 ~ -40V
<b>Power Consumption</b>	Max: 520W**
<b>Weight</b>	14.5kg
<b>Humidity</b>	5% ~ 100%
<b>Operating Temperature</b>	-40°C ~ +55°C
<b>IP Rating</b>	IP 67
<b>Mounting Options</b>	Pole (45mm to 75mm) / Wall *** mounting kit included in the RRU package

Note: \* Support via software upgrade

\*\* The max power consumption of an RRU is measured at 25°C ambient temperature. The actual power consumption may have a 10% deviation from the value.

\*\*\* Support 75mm-120mm pole mounting by optional mounting kit