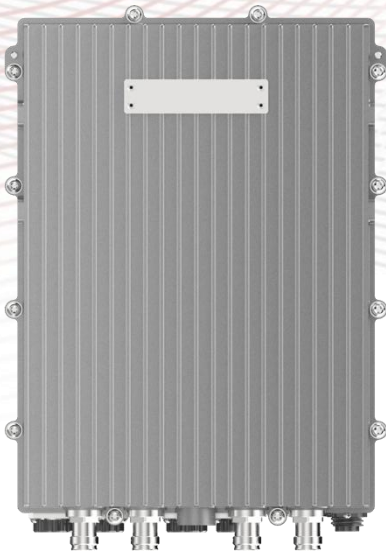




nCELL-RU4460

5G Remote Radio Unit

4T4R Digital Radios

40W (46dBm) Output Power

5G NR

IP67 Outdoor Rated

The RU4460 from BTI is a high output power radio frequency unit (RRU) for 5G NR outdoor base stations. It forms a complete 5G base station together with the baseband unit (BBU), which is used in mobile communication cell cellular networking scenarios.

The platform support fiber optic cable cellular technology with CPRI/eCPRI protocol. The Power amplifier technology uses DPD (digital pre-distortion) technology, compared with analog technology, power consumption has been significantly improved. The platform is ideal for underground tunnel and outdoor overlay deployments for cellular services.

KEY FEATURES

- Support 4T4R, 5G NR Compliant
- Up to 40W (46dBm) Output Power and 100MHz IBW
- Supports Sub-6GHz TDD & FDD and External Alarm

TECHNICAL SPECIFICATIONS

SYSTEM

Bandwidth per Channel (Downlink & Uplink)	≤ 100 MHz (Contiguous)
Digital Bandwidth per Channel (Downlink & Uplink)	3/5/10/20MHz LTE 20/40/50/60/80/100MHz NR

SUPPORTED BANDS

Band Frequency	3GPP Band	Downlink Frequency	Uplink Frequency	Max Bandwidth
2570-2620 TDD	N38	2570-2620	2570-2620	100
2300-2400 TDD	N40	2300-2400	2300-2400	100
2496-2690 TDD	N41	2496-2690	2496-2690	100
3300-3600 TDD	N78	3300-3600	3300-3600	100
3600-3800 TDD	N78	3600-3800	3600-3800	100

* More bands will be supported in the roadmap

INTERFACES

Antenna Interface (All bands)	4.3-10 Female
Optical Connector Type	SFP+, Standard LC
Optical Transmission Rate	9.8304GB/s
Optical Fiber Length	1.4km / 10km / 30km 0.87mi / 6.21mi / 18.64mi
Dry Contact	2 Inputs & 2 Outputs, NO and NC Mode
Maintenance Interface	Ethernet RJ45

ELECTRICAL

Complies with	3GPP TS36.106 3GPP TS25.106
EMC	EN 301489-1 / -50, EN 50121-4, EN 55032, EN 61000-4 series
Safety	EN 60950-1, EN 60950-22, EN 62368-1, EN 50385
Maximum Power Consumption	650W
Power Supply	48VDC ± 20%

ENVIRONMENTAL

Mean Time Between Failure (MTBF)	> 100,000 hours
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Operating Temperature	40 °C ~ +55 °C -40 °F ~ +131 °F
Humidity	5% to 100% (Non-Condensing)
Cooling	Passive
Installation	Wall or Pole
Ingress Protection Rating	IP67 (Outdoor)
Complies with	EN 300019-1-1, EN 300019-1-2, EN 300019-1-4

MECHANICAL

Size (Width x Height x Depth)	500 x 380 x 142 mm 19.7 x 14.96 x 5.59 in
Weight	27.9 kg 61.5 lbs

Contact Us Today

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