



nCELL-RU4240

5G Pico Remote Radio Unit

4T4R

24dBm

5G NR

IBW 200MHz

The nCELL-RU4240 from BTI WIRELESS is a remote unit in a 5G extended leather base station and usually needs to be used in conjunction with an extension unit (EU) and a baseband unit (BBU) to achieve 5G wireless signal coverage. This 5G pRRU remote unit adopts digital technology and uses optical fiber to carry wireless signals for remote coverage. It is mainly used in indoor coverage scenarios.

KEY FEATURES

- 4T4R design, can be upgraded to 200 MHz processing bandwidth
- Compatible with CPRI and eCPRI interfaces
- Comply with O-RAN specifications, and can be interconnected with expansion units or BBUs of different manufacturers
- The product is small in size, high in efficiency, light in weight, and convenient for indoor installation
- Supports remote upgrade and maintenance

SYSTEM ELEMENTS



HARDWARE SPECIFICATIONS

Working Frequency	3550MHz-3700MHz
Working Bandwidth	60/80/100 MHz
Number of RF Channels	4T4R
Output Power	24dBm per channel
EVM	$< 17.5\%$ QPSK (maximum power) $< 12.5\%$ 16QAM (maximum power) $< 8\%$ 64QAM (maximum power) $< 3.5\%$ 256QAM (maximum power)
Frequency Error	$< 0.01\text{ppm}$
ACLR	$> 45\text{dB}$
Turn Off Power	Below -89dBm/MHz
Spurious Emission	Meets 3GPP TS 38.104 V16.0.0 protocol requirements
Receiver Sensitivity	The throughput loss is not more than 5%, refer to the measurement channel G-FR1-A1-5, the sensitivity of the single-channel receiver is not higher than -94dBm . (Receiver sensitivity is subject to the tested BBU)

Block	In-channel selectivity, ACS, in-band narrowband blocking, out-of-band blocking, receiving intermodulation, WIFI coexistence and other indicators, under various interference signal conditions required in 3GPP 38.104, the sensitivity of single-channel receivers is not high under any circumstances At -88dBm. (The receiver sensitivity is subject to the tested BBU)
Antenna Interface	Built-in antenna or external antenna (SMA-F)
Antenna Gain (Internal Module)	≥ 2 dBi
Operating Temperature	-5 °C ~ +55 °C 23 °F ~ +131 °F
Powered Supply	48V
Power Consumption	< 30W
Size	219 x 174.5 x 62 mm 8.62 x 6.87 x 2.44 in
Weight	1.6 kg 3.53 lbs
Noise Figure	2db@low noise amplifier

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Contact Us

www.btiwireless.com

sales@btiwireless.com