

LTE/NR Distributed Base Station Product Introduction

Product Overview

LTE/NR distributed base stations adopt a BBU-RRU split architecture.

Optical fiber connection, high capacity and low latency enable coverage of various indoor and outdoor scenarios.

Technical Features

- ✓ Decoupled Architecture, Point-to-Multipoint Connection
- ✓ Centralized Management, Shared Resources
- ✓ Performance Optimization, Balancing Coverage and Capacity
- ✓ Multi-Standard Compatibility, Smooth Evolution

Application Scenarios

- ✓ High-rise residential buildings
- ✓ Urban villages
- ✓ Stores
- ✓ Elevators
- ✓ Underground parking lots

Product Specifications

LTE-BBU-2cell



LTE-BBU-2cell	
Protocol	3GPP R15
Cell No.	2 cells
Carrier bandwidth	5/10/15/20 MHz
Subcarrier spacing	15kHz
Peak Rate	DL/150Mbps;UL/75Mbps (FDD,20MHz/carrier BW)
User No.	Supports 2*64 access users, 2*32 service users
Network functions	Supports TR069 protocol, VLAN function, IPRAN and PON network backhaul
Synchronous mode	RGPS, 1588; $\pm 0.01\text{ppm}$
RGPS interface	Per cell 2*RJ45
Backhaul interface	Per cell 2*RJ45 GE; 2*SFP+ GE
Networking capability	Per cell 2*4*SFP+ connect to RU
Maintenance interface	2*RJ45 GE
Operating temp/humidity	-25°C ~ +45°C; 10% ~ 90%
IP rating	IP30
Power consumption	$\leq 40\text{W}$
Power supply mode	AC 220V or DC -48V power supply
Dimension (L*W*H)	$\leq 441\text{mm} \times 264\text{mm} \times 44\text{mm}$
Weight	$\leq 4.5\text{kg}$
Installation	Standard cabinet installation, wall mounted

Product Specifications

NR BBU/ARM framework



NR BBU/ARM framework	
Protocol	3GPP R15
Cell No.	3 cells
Carrier bandwidth	TDD: 10MHz/20MHz/40MHz/60MHz/80MHz/100MHz FDD: 10MHz/20MHz/30MHz/40MHz
Subcarrier spacing	TDD: 30kHz FDD: 15kHz
Peak rate	TDD: 1.DDDDD DDSUU frame structure 4-channel downstream 1.35Gbps, upstream 210Mbps 2-channel downstream 700Mbps, upstream 210Mbps 2.DDDSU DDSUU frame structure 2-channel downstream 675Mbps, upstream 337.5Mbps 3.DSUUU frame structure 2-channel downstream 315Mbps, upstream 612Mbps FDD (40M) : Downstream 2-stream 370Mbps, upstream single stream 200Mbps
User No.	TDD:800 access users,400 service users/cell FDD:400 access users,200 service users/cell
Network functions	Supports TR069 protocol, VLAN function, IPRAN and PON network backhaul
Synchronous mode	GPS,RGPS,1588; ± 0.01 ppm
GPS interface	1*SMA
Backhaul interface	1*SFP+ 10GE
Networking capability	eCPRI 2*SFP+ 10Gbps
Maintenance interface	1*RJ45 GE
Operating temp/humidity	-25°C ~ + 45°C; 10% ~ 90%
IP rating	IP30
Power consumption	≤ 190 W
Power supply mode	AC 220V or DC 48V power supply
Dimension (L*W*H)	$\leq 438\text{mm} \times 380\text{mm} \times 44\text{mm}$
Weight	≤ 5.6 kg
Installation	Standard cabinet installation, wall mounted

Product Specifications

LTE-250mW RU



LTE – 250mW RU	
Band	B1/B3/B5/B8/B28/B7
IBW	5/10/15/20 MHz
Max. output power	2*24dBm
MIMO	2TR or 2T2R
Antenna	Built in omnidirectional antenna or two external SMA RF interfaces
Networking	Supports connection to BBU, with a maximum support of 2 levels of cascading
EVM	QPSK < 17.5%, 16QAM < 12.5%, 64QAM < 5%
Sensitivity	≤-100dBm/ANT(FDD LTE:3GPP TS 36.141)
ACLR	≤-45dBc
VSWR	≤1.5
Operating temp/humidity	-25°C ~ +45°C; 10% ~ 90%
IP rating	IP30
Power consumption	≤20W
Power supply mode	AC 220V to DC 12V power adapter
Dimension (L*W*H)	≤180mm*130mm*49mm
Weight	≤1kg
Installation	Flat, ceiling mounted, wall mounted

Product Specifications

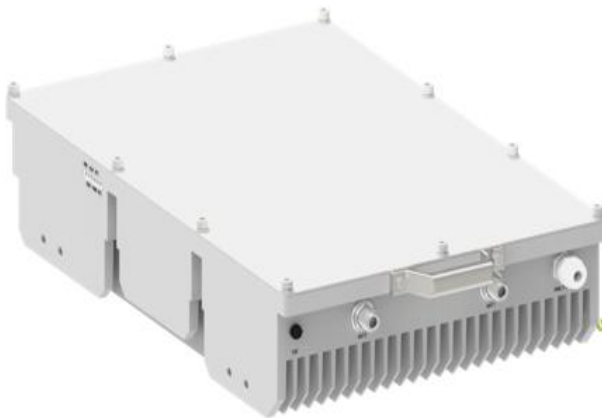
LTE-5W RU



LTE-5W RU	
Band	B3/B5/B8/B1
IBW	5/10/15/20 MHz
Max. output power	2*37dBm
MIMO	2TR or 2T2R
Antenna	Built in omnidirectional antenna or two external N-K RF interfaces
Networking	Supports connection to BBU, with a maximum support of 2 levels of cascading
EVM	QPSK < 17.5%, 16QAM < 12.5%, 64QAM < 5%
Sensitivity	≤-100dBm/ANT(FDD LTE:3GPP TS 36.141)
ACLR	≤-45dBc
VSWR	≤1.5
Operating temp/humidity	-40°C ~ +55°C; 10% ~ 90%
IP rating	IP65
Power consumption	≤100W
Power supply mode	AC 220V/DC-48V
Dimension (L*W*H)	≤370mm*295mm*88.5mm
Weight	≤10kg
Installation	Wall mounted

Product Specifications

LTE/NR-40W RU



LTE-40W RU	
Band	LTE:B1/B3/B5/B8/B28/B7 NR:N1/N28
Carrier bandwidth	5/10/15/20/30/40MHz
Nominal output power	2*46dBm/2*47.8dBm
MIMO	2T2R
Antenna	2*N -K
CPRI	2*SFP+,10Gbps
Networking	Supports connection to BBU/EU, with a maximum support of 2 levels of cascading
EVM	QPSK < 17.5%, 16QAM < 12.5%, 64QAM < 5%, 256QAM < 3.5%
Sensitivity	≤-100dBm/ANT(FDD LTE:3GPP TS 36.141) ≤-103dBm/ANT(FDD NR:3GPP TS 38.141)
ACLR	≤-45dBc
VSWR	≤1.5
Operating temp/humidity	-40°C ~ +55°C; 10% ~ 90%
IP rating	IP65
Power consumption	≤400W(2*46dBm) ≤550W(2*47.8dBm)
Power supply mode	AC 220V or DC 48V
Dimension (L*W*H)	≤380mm*280mm*160mm(2*46dBm) ≤450mm*315mm*181mm(2*47.8dBm)
Weight	≤12.5kg(2*46dBm); < 18kg(2*47.8dBm)
Installation	Wall mounted, pole mounted