

Benefits:

- LTE 2*2 MIMO/4*4 MIMO
- 5W / 20W / 40W RRU
- Max 3 LTE Carriers
- 256 Active-users per Cell
- GPS Clock synchronization

Laguna-BBU4G1

Overview:

The Laguna-BBU4G1 is a comprehensive wireless access solution that encompasses the management of the air interface, access control, mobility management, user resource allocation, and other essential radio resource management functions. It is designed to handle wireless service transmission with high efficiency. The system comprises a baseband unit (Laguna-BBU4G1) and a remote radio unit, working in tandem to deliver optimized performance and seamless connectivity.

Key Features:

- Supports 3 x 20MHz LTE cells
- Supports remote upgrade and management
- Supports IPsec function to ensure data security
- Supports 2 x 2 MIMO and 4 x 4 MIMO
- Supports 256 active users per cell
- MTBF > 100000 hours
- Simple structure and easy installation
- Supports GPS synchronization

Supported Bands:

For supported bands, please contact Cable AML.



Specifications:

System:

3GPP.....	Release 15	
LTE Technology.....	TDD/FDD	
Bandwidth.....	5/10/20 MHz	
MIMO.....	3 Carriers, 2T2R 2 Carriers, 4T4R	
Operational Capacity.....	Each cell supports 256 active users and 512 RRC connected users Supports 3 x 2T2R cells or 2 x 4T4R cells	
VoLTE Performance.....	Each cell supports up to 256 active VoLTE users	
Throughput.....	TDD:	
	20 MHz@2TRX	20 MHz@4TRX
	SA1: DL 80 Mbps UL 17 Mbps	SA1: DL 160 Mbps UL 17 Mbps
	SA2: DL 110 Mbps UL 10 Mbps	SA2: DL 210 Mbps UL 10 Mbps
	FDD	
	20MHz@2TRX	20MHz@4TRX
	DL 125 Mbps UL 46 Mbps	DL 242 Mbps UL 46 Mbps

Monitoring and Control:

LMC (Local Monitoring & Control).....	Internet, WEBOMT
Remote Monitoring & Control.....	TR069 protocol monitoring function
OMT.....	WEBOMT

Laguna-RRU4GX4-DB37-BXX

Laguna-BBU4G1

Appearance:

Installation Method.....	Rack installation	Wall or Pole installation
Size (L*W*H).....	2.99 x 9.37 x 1.73 in	12.68 x 9.65 x 5.35 in
Weight.....	4 kg 8.82 lbs	< 15 kg 33.07 lbs
Heat Dispersion.....	Fan cooling	Natural cooling

These specifications are subject to change without notice. Rev. BBU-4G-528-19

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Environmental:

Operating Temperature	-10 °C ~ +45 °C	-40 °C ~ +55 °C
	-14 °F ~ +113 °F	-40 °F ~ +131 °F
Storage Temperature.....	-40 °C ~ +70 °C	-40 °F ~ +158 °F
Humidity.....	15% ~ 85%	5% ~ 98%
Ingress Protection Degree.....	IP20	IP65

Electrical:

Power.....	DC 48V standard power supply: DC 36V~60V	DC 48V standard power supply: DC 36V~60V (BBU contains a switch to support POE power supply to the bridge)
Power Consumption.....	< 80W	< 180W
Reset Time.....	≤10 min	
Backup Power.....	NO	

Interfaces:

No.	Definition	Number	Interface Standard	Interface ID	Function Description
1	BBU board optical port	3	SFP	SFP1~4	For RRU Cascading
2	BBU board optical port	1	SFP	SFP_ETH	Backhaul optical port
3	Ethernet port 1	1	RJ45	LAN	Local debugging port
4	Ethernet port 2	1	RJ45	WAN	Backhaul network port
5	GPS	1	SMA	GPS	Connect to GPS antenna
6	Indicator Light	4		PWR, RUN, 4G, GPS	Indicator light Indicates BBU status
7	USB	1	USB	USB	Connect USB disk
8	Power Supply	1		Power	AC/DC input
9	Switch	1	Rocker switch	SWITCH	Switching Functions

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