

Product name	FDD-LTE Integrated Small cell High Power
Version Document Number	LTE/GRAN/ver2.0

***FDD-LTE Integrated Small cell High Power
Product Datasheet***

FDD-LTE Integrated Small cell High Power Product Catalog

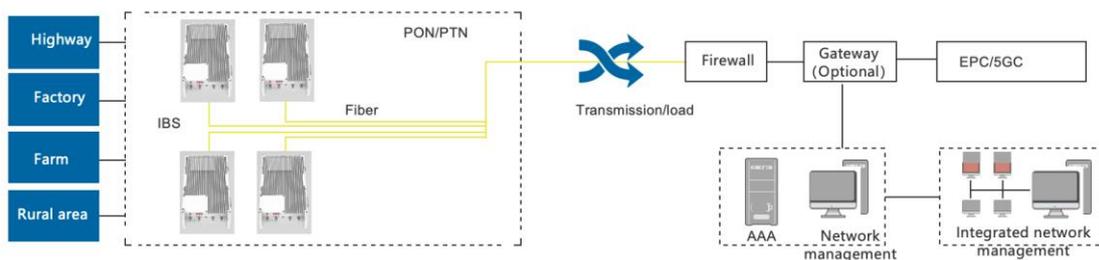
Product Category		model	
FDD-LTE Integrated Small cell High Power	B5	2*5W	BRBS570501
		2*20W	BRBS590501
		2*40W	BRBS5A0501
	B8	2*5W	BRBS570801
		2*20W	BRBS590801
		2*40W	BRBS5A0801
	B3	2*5W	BRBS570301
		2*20W	BRBS590301
		2*40W	BRBS5A0301
	B1	2*5W	BRBS570101
		2*20W	BRBS590101
		2*40W	BRBS5A0101
	B41	2*5W	BRBS574101
		2*20W	BRBS584101
		2*40W	BRBS5A4101

Product Introduction:

Integrated outdoor high-power base station system, equipped with 2*5W/2*20W/2*40W RF remote head end. The *Integrated* base station is connected to the EPC core network through IPsec (IPRAN), and the system adopts a star network architecture to provide FDD-LTE 4G services to users.

The system design achieves rapid deployment and network construction, with very low maintenance costs, providing small cell coverage, and improving various outdoor weak signal coverage.

System Overview

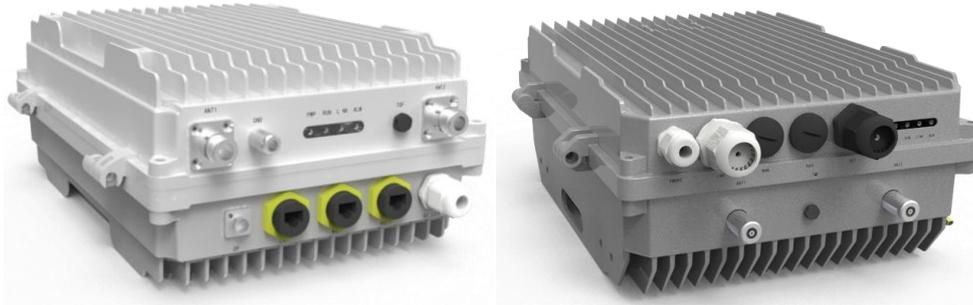


Network Diagram

Product Features:

- ✓ Support GPS, RGPS, 1588 synchronization
- ✓ Supports 64 user access status and 32 user VOLTE, providing voice, video, data and mobile communication services for terminals
- ✓ Supports multiple IP network backhaul solutions such as xPON/PTN/IPRAN
- ✓ Supports PSK authentication, digital certificate authentication, and ESP encrypted transmission
- ✓ Supports SON, remote management, and TR069 network management functions
- ✓ Support AC/DC power supply
- ✓ Antennas can be installed externally or in an integrated manner

Product Drawing:



Integrated Small Cell

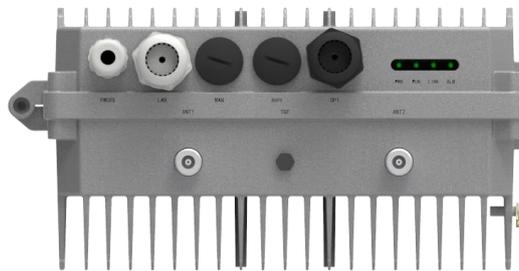
Product specifications:

Operating frequency range	B5/B8/B3/B1/B41
Working Bandwidth	5/10/15/20 MHz
Nominal Output Power	2*5W/2*20W/2*40W
User number	64 access users, 32 service users
Voice plan	VoLTE, eSRVCC, CSFB
Internet function	Support TR069/SON/VLAN/IPRAN/PON
security capabilities	Support IPsec, support digital certificate authentication, USIM card authentication
antenna	Antennas can be installed externally or in an integrated manner
Synchronously	GPS, RGPS, 1588v2: ± 0.05 ppm
EVM	QPSK:17.5%, 16QAM:12.5%, 64QAM:5%
Sensitivity	≤ -101.5 dBm
ACLR	≤ -45 dBc
spurious emissions	3GPP TS 36.104 R9 Category B
emission intermodulation	3GPP TS 36.104 R9 Home BS limits for 10,20 MHz channel bandwidth (E-UTRA bands ≤ 3 GHz)
block	3GPP TS 36.104 [2] subclause 7.6.1
Enter VSWR	≤ 1.5
Output VSWR	≤ 1.5
temperature	$-40^{\circ}\text{C} \sim +55^{\circ}\text{C}$
Power consumption	5W:150W;20W:300W;40W:400W
IP level	IP65
Power supply	AC220V/DC-48V

Interface is shown in the figure:



5W



20W、40W

Interface Description:

Integrated High Power Small cell-5W

Interface definition	Quantity	Connector type
ANT	2	N-K
GND	1	
TQF	1	
OP	1	SFP+
LAN	1	RJ45
WAN	1	RJ45
RGPS	1	RJ45
POWER IN	1	AC 220V/DC-48V

Integrated High Power Small cell-20W, 40W

Interface definition	Quantity	Connector type
POWER	1	AC220V / DC-48V
LAN	1	RJ45
WAN	1	RJ45
RGPS	1	RJ45
OP	1	SFP+
ANT	2	N-K
TQF	1	
GND	1	

General

Category	Size	Package size	Net weight	Gross weight	Engineering installation
5W	316mm*223mm*133mm	360mm*260mm*180mm	7kg	8.2kg	Wall mounted installation or clamp installation
20W/40W	382mm*284mm*152mm	495mm*425mm*275mm	12.2kg	15.4kg	Wall mounted installation or clamp installation

product parameters and engineering installation:

Engineering installation



Clamp installation



Wall mounted installation (demonstration)