

Product name	FDD-LTE femtocell Product Datasheet
Version Document Number	LTE/GRAN/ver2.0

FDD-LTE femtocell Product Datasheet

FDD-LTE femtocell Product Catalog

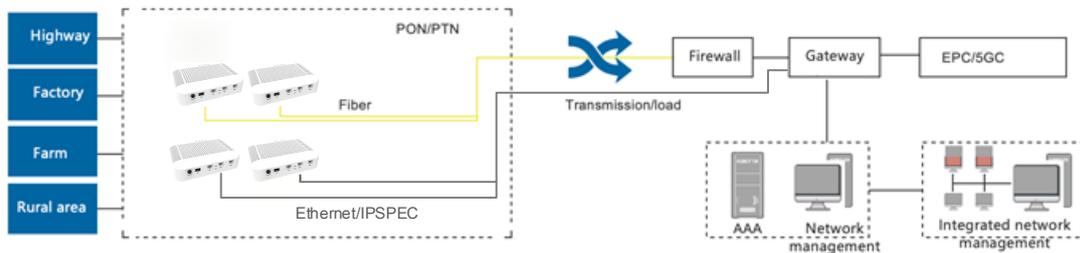
Product Category			model
FDD-LTE femtocell	B28	2*125mW	BRBS5E2801
		2*250mW	BRBS52801
	B5	2*125mW	BRBS5E0501
		2*250mW	BRBS520501
	B8	2*125mW	BRBS5E0801
		2*250mW	BRBS520801
	B3	2*125mW	BRBS5E0301
		2*250mW	BRBS520301
	B1	2*125mW	BRBS5E0101
		2*250mW	BRBS520101

Product Introduction:

FDD-LTE femtocell base station system, equipped with 2*125mW/2*250mW RF remote head end. The femtocell 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 indoor 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 220V to DC +12V power adapter supply
- ✓ The antenna can be externally installed

Product Drawing:

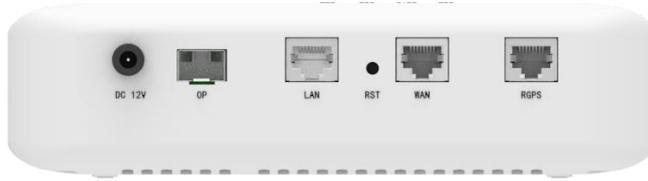


Femtocell

Product specifications:

Operating frequency range	B28, B5, B8, B3, B1
Working Bandwidth	5/10/15/20 MHz
Nominal Output Power	2*125mW/2*250mW
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: ± 0.01 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	≤ 1.8
Output VSWR	≤ 1.8
temperature	$-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
Power consumption	125mW:18W;250mW:24W
IP level	IP30
Power supply	AC 220V to DC +12V power adapter

Interface is shown in the figure:



Interface Description:

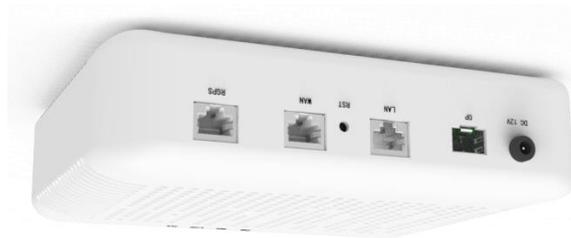
Interface definition	Quantity	Connector type
POWER	1	DC+12V
OP	1	SFP+
LAN	1	RJ45
RST	1	Resetting Key
WAN	1	RJ45
RGPS	1	RJ45
ANT (EXT)	2	SMA-K

General

Category	Size	Package size	Net weight	Gross weight	Engineering installation
125mW/250mW	180mm*130mm*49mm	220mm*160mm*60mm	1kg	1.2kg	ceiling mounted installation

product parameters and engineering installation:

Engineering installation



ceiling mounted installation