sCELL-RF

LTE Residential Femtocell

FDD, 2x2 MIMO, 2x50mw

32 Concurrent Users, 64 RRC

The sCELL-RF from BTI Wireless is a residential 4G integrated small base station. The product connects to the backbone network through wired backhaul, and provides LTE access for terminals. It supports the transmission of voice and data with indoor wireless broadband coverage.

KEY FEATURES

- Highly integrated design of baseband and radio frequency
- Based on 3GPP LTE FDD technology with high-speed data services
- Support 10 MHz, 20 MHz working bandwidth
- Convenient networking, plug and play solution, easy and flexible deployment
- On-demand integration can achieve precise coverage and quickly increase the capacity of the existing network
- Abundant security services provide instant protection to prevent potential security risks and illegal intrusion
- Web-based management, convenient and intuitive
- With complete network management functions, the system can be managed, monitored and maintained in the network management system
- Small and beautiful design with humanized indicator light, easy to observe and manage equipment status

INTERFACE SPECIFICATIONS

INTERFACE NAME	QUANTITY	INTERFACE TYPE	INTERFACE DEFINITION
WAN	1	RJ45	Data return and PoE+ power supply interface
LAN	1	RJ45	Local debugging interface
USIM	1		USIM card slot
DC 12V	1	DC Socket	12V DC power supply interface
RST	1		Manual reset device button
PWR	1		Device power switch button

HARDWARE SPECIFICATIONS

Work Style	LTE FDD
Working Frequency	B1 / B3
Working Bandwidth	5 MHz/ 10 MHz/ 15 MHz/ 20 MHz
Transmit Power	2 x 17 dBm
Synchronously	Support IEEE 1588 V2, IEEE 1588 ACR and air interface synchronization
Return Method	RJ-45 Ethernet port (1GE)
MIMO	2 x 2
Equipment Size	135 mm x 175 mm x 25 mm | 5.31 in x 6.89 in x 0.98 in
Installation Method	Desktop placement
Power Consumption	< 12W
Power Supply	220V AC to 12V DC power adapter
Weight	< 0.5 kg | 1.10 lbs
Equipment Capacity	< 0.7 L

SOFTWARE SPECIFICATIONS

Technical Standard	3GPP Release 12

Peak Rate (20 MHz Bandwidth)	DL: 150 Mbps/ UL: 75 Mbps
Operational Capacity	Support 32 concurrent users, 64 RRC connected users
Scheduling Method	3GPP standard QCI
Modulation	Uplink: BPSK, QPSK, 16QAM, 64QAM Downlink: BPSK, QPSK, 16QAM, 64QAM
SON	Support automatic configuration, ANR and PCI conflict detection
Network Management Interface	Support TR069 interface protocol
MTBF	< 150,000 hours
MTTR	< 1 hour
O&M	Support remote/local maintenance, based on SSH protocol Support online status management Support performance statistics Support fault management Support configuration management Support local or remote software upgrade and loading Support log Support connectivity diagnosis Support self-start and self-configuration deployment Support alarm reporting, Support KPI reporting Support user information tracking

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-5 °C ~ 40 °C | 23 °F ~ 104 °F
Humidity	10% ~ 95%

* Frequency band can be customized according to specific projects

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