

# sCELL-RF

## LTE Residential Femtocell



2 x 2 MIMO

2 x 50mw

32 Concurrent Users

64 RRC Connected Users

The sCELL-RF from SUNWAVE 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.

## FEMTOCELL sCELL-RF DATASHEET

## KEY FEATURES

- Highly integrated design of baseband and radio frequency
- Based on 3GPP LTE FDD technology with high-speed data services
- Supports 5/10/15/20 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 lights, easy to observe and manage equipment status
- IP20 Protection Level

## 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

<b>Work Style</b>	LTE FDD
<b>Working Frequency</b>	B1 / B3
<b>Working Bandwidth</b>	5 MHz/ 10 MHz/ 15 MHz/ 20 MHz
<b>Transmit Power</b>	2 x 17 dBm
<b>Synchronization</b>	Supports IEEE 1588 V2, IEEE 1588 ACR and air interface synchronization
<b>Backhaul Method</b>	RJ-45 Ethernet port (1GE)
<b>MIMO</b>	2 x 2
<b>Equipment Size</b>	140 x 175 x 25 mm   5.51 x 6.89 x 0.98 in
<b>Installation Method</b>	Desktop
<b>Power Consumption</b>	< 12W
<b>Power Supply</b>	220V AC to 12V DC power adapter
<b>Weight</b>	< 0.5 kg   1.10 lbs
<b>Equipment Capacity</b>	< 0.6 L

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SOFTWARE SPECIFICATIONS	
<b>Technical Standard</b>	3GPP Release 12
<b>Peak Rate (20 MHz Bandwidth)</b>	DL: 150 Mbps (64QAM)/ UL: 75 Mbps (64QAM)
<b>Operational Capacity</b>	Supports 32 concurrent users, 64 RRC connected users
<b>Scheduling Method</b>	3GPP standard QCI
<b>Modulation</b>	Uplink: QPSK, 16QAM, 64QAM Downlink: QPSK, 16QAM, 64QAM
<b>SON</b>	Supports automatic configuration, ANR and PCI conflict detection
<b>Network Management Interface</b>	Supports TR069 interface protocol
<b>MTBF</b>	< 150,000 hours
<b>MTRR</b>	< 1 hour
<b>O&amp;M</b>	<ul style="list-style-type: none"> <li>Supports remote/local maintenance, based on SSH protocol</li> <li>Supports online status management</li> <li>Supports performance statistics</li> <li>Supports fault management</li> <li>Supports configuration management</li> <li>Supports local or remote software upgrade and loading</li> <li>Supports log</li> <li>Supports connectivity diagnosis</li> <li>Supports self-start and self-configuration deployment</li> <li>Supports alarm reporting</li> <li>Supports KPI reporting</li> <li>Supports user information tracking</li> </ul>

ENVIRONMENTAL SPECIFICATIONS	
<b>Operating Temperature</b>	-5 °C ~ +45 °C   +23 °F ~ +113 °F
<b>Humidity</b>	10% ~ 95%

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