THE DIGITAL EDGE OF 5G -- SINCE 1993

sCELL-H2000

Integrated eNB

3GPP Release 12
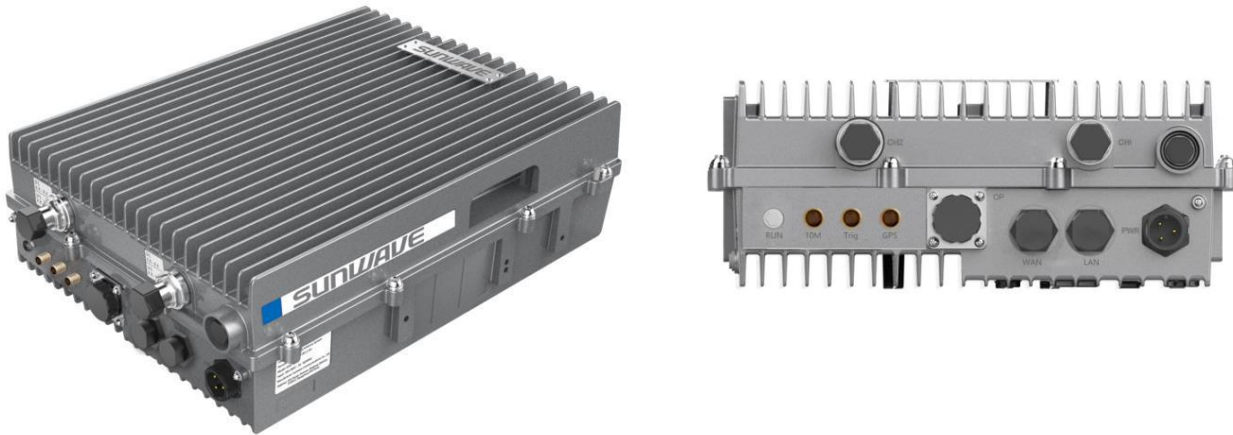
2x20W with MIMO

192 Concurrent Users

VoLTE

The sCELL-H2000 from SUNWAVE is an advanced outdoor LTE compact product that operates in TDD/FDD mode. This eNB provides users with high-speed broadband wireless access to the Internet using 2x20W output power (2x2 MIMO with 20W output each channel). This eNB is capable of operating in 5, 10, 15, or 20 MHz bandwidth, supporting 192 active users and 384 RRC users.

KEY FEATURES

- Standard B1/3/38/40/40/41 or customized
- Complies with 3GPP Release 13 standard
- Supports 5/10/15/20 MHz bandwidth
- GUI-based local and remote web management
- TR069 network management interface
- Cloud/local/embedded EPC is supported for more convenient and cost-effective deployment
- 192 concurrent users per eNodeB
- IoT with all standard LTE Evolved Packet Core (EPC)

APPEARANCE

HARDWARE SPECIFICATIONS

LTE Mode	TDD/FDD
Frequency Bands	B1/3/38/40/40/41 or customized
Channel Bandwidth	5 MHz, 10 MHz, 15 MHz, 20 MHz
Max Output Power	43 dBm / channel
Power Supply	AC220V±44V
Power Consumption	< 250W
Receive Sensitivity	<-104dBm
Synchronization	1588v2, GPS, NL
Interfaces	1 Optical (SFP) and 1 RJ-45 Ethernet interface (1 GE)
MIMO	DL: 2 x 2
Installation	Pole or wall mounting
Antenna Type	4.3-10 Female interface
Dimensions (H x W x D)	400 x 300 x 125 mm | 15.75 x 11.81 x 4.92 in

Weight	12.5 kg	27.56 in
MTBF	≥ 150000 hours
MTTR	≤ 1 hour

SOFTWARE SPECIFICATIONS		
LTE Standard	3GPP Release 13	
Peak Rate (up to)	FDD DL: 200Mbps@256 QAM UL: 75Mbps@64 QAM	TDD DL: 130Mbps@256 QAM UL: 15Mbps@64 QAM
User Capacity	128 VoLTE 192 RRC concurrent 384 RRC connected	
QoS Control	3GPP standard QCI	
Modulation	DL: QPSK, 16QAM, 64QAM, 256QAM UL: QPSK, 16QAM, 64QAM	
Voice	VoLTE, Circuit Switched Fallback (CSFB)	
SON	Automatic setup Automatic Neighbor Relation (ANR) PCI confliction detection	
RAN Sharing	Multi-Operator Core Network (MOCN)	
Network Management	TR069	
UL Interference Detection	Supported	
Maintenance	Remote or local maintenance Online status management Performance statistics Fault management Local or remote software upgrade Logging Connectivity diagnosis Automatic start and configuration Alarm reporting User information tracing Signaling trace	

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-40 °C ~ +55 °C	-40 °F ~ +131 °F
Storage Temperature	-40 °C ~ +75 °C	-40 °F ~ +158 °F
Humidity	5% ~ 98%
Atmospheric Pressure	86 kPa ~ 106 kPa

Ingress Protection Rating	IP65
Power Interface Lightning Protection	Differential mode: ± 10 KA , Common mode: ± 20 KA

Contact Us

www.sunwave.com