



sCELL-H2000

Integrated eNB

3GPP Release 12

Embedded EPC

2x20W with MIMO

192 Concurrent Users

DL 220 Mbps, UL 28 Mbps

The sCELL-H2000 from BTI Wireless is an advanced dual carrier (DC) compact outdoor LTE product that operates in TDD mode. This integrated eNB provides high-speed broadband wireless access to the Internet with output power of 2 x 20W (2x2 MIMO with 20W output for each channel).

The sCELL-H2000 is capable of operating in both Dual Carrier (DC) or Single Carrier mode. In DC mode, each carrier is treated as an independent cell, supporting 96 + 96 users, and each cell supports 5, 10, 15, or 20 MHz bandwidth. The sCELL-H2000 simplifies the deployment of distributed sectors in the DC mode.

KEY FEATURES

- Standard LTE TDD bands 38/40/41 & customization
- Complies with 3GPP release 12 standards
- Support two carriers, and software upgradable to two CC carrier aggregation
- Supports 5/10/15/20 MHz bandwidth per carrier and their combinations
- GUI-based local and remote web management
- TR069 network management interface support
- External high-gain antenna
- Cloud /local/embedded EPC is supported for more convenient and cost-effective deployment
- Peak rate (per unit): DL 220 Mbps, UL 28 Mbps @ 2x20 MHz bandwidth
- 192 concurrent users per eNodeB
- Support RET function AISG 2.0.
- IoT with all standard LTE Evolved Packet Core (EPC)

HARDWARE SPECIFICATIONS

LTE Mode	TDD
Frequency Bands	38/40/41 and customized
Channel Bandwidth	5 MHz, 10 MHz, 15 MHz, 20 MHz 5 MHz + 5 MHz 10 MHz + 10 MHz, 20 MHz + 20 MHz 20 MHz + 10 MHz, 20 MHz + 15 MHz
Max Output Power	43 dBm / channel
Power Supply	-48V DC, AC adaptor (multi-national standards)
Power Consumption	< 200W
Receive Sensitivity	-102 dBm
Synchronization	GPS, 1588v2
Interfaces	1 Optical (SFP) and 1 RJ-45 Ethernet interface (1 GE)
MIMO	DL: 2 x 2 on each carrier
Installation	Pole or wall mounting
Antenna Type	External high-gain Antenna compatible with eNB N-Type connectors
Dimensions (HxWxD)	440 mm x 240 mm x 140 mm 17.32 in x 9.45 in x 5.51 in
Weight	12 kg 26.46 lbs
MTBF	≥ 150000 hours
MTTR	≤ 1 hour

SOFTWARE SPECIFICATIONS			
LTE Standard	3GPP Release 12		
Peak Rate (up to) in DC Mode	2x20 MHz:	DL (Mbps)	UL (Mbps)
	SA0:	2x50 (100)	2x42 (84)
	SA1:	2x80 (160)	2x28 (56)
	SA2:	2x110 (220)	2x14 (28)
	2x10 MHz:	DL (Mbps)	UL (Mbps)
	SA0:	2x25 (50)	2x21 (42)
SA1: Config. 1 (DSUUD)	SA1:	2x40 (80)	2x14 (28)
SA2: Config. 2 (DSUDD)	SA2:	2x55 (110)	2x7 (14)
User Capacity	96 concurrent users in single carrier mode 96 + 96 concurrent users in DC mode		
QoS Control	3GPP standard QCI		
Modulation	DL: QPSK, 16QAM, 64QAM UL: QPSK, 16QAM, 64QAM		
Voice	VoLTE, Circuit Switched Fallback (CSFB)		
Traffic Offload	Local breakout		
SON	Self-organizing network: <ul style="list-style-type: none"> • Automatic setup • Automatic Neighbor Relation (ANR) • PCI confliction detection 		
RAN Sharing	Multi-Operator Core Network (MOCN)		
RET	Supported		
Network Management	TR069		
Spectrum Scanning	Supported		
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 ~ 70 °C -40 °F ~ 158 °F
Humidity	5% ~ 95% (Non-condensing)
Atmospheric Pressure	70 kPa ~ 106 kPa
Ingress Protection Rating	IP66
Power Interface Lightning Protection	Differential mode: ± 10 KA Common mode: ± 20 KA

Contact Us

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