



ONECELL® Baseband Controller 2000 Controller Module.

- Pooled baseband processing with centralized scheduler
- Smart Reuse for multi-sector throughput without border handovers or interference
- Single PCI across multiple Radio Points
- Joint Transmission and Reception
- No borders or handovers within controller

Product Classification

Product Type	Controller unit
Product Brand	ONECELL®

General Specifications

Technology	LTE MIMO
Application	LTE delivery for public venues and large enterprises
Backhaul Interface	Enterprise broadband connection fiber, cable or DSL
Backhaul Security	IKEv2/IPSec with certificate mutual authentication
Boot and Storage Security	Secure Boot, Secure Storage (TrE)
Cell Virtualization Reuse Factor	Up to 4 virtual cells per physical cell, depending on channel bandwidth, deployment topology and usage.
Controller to RP Management Security	HTTPS/SSL PSK
Core Network Interface	S1-MME & S1-U
Coverage Area	Up to 1,000,000 square feet
Coverage Area Note	Depending on frequency bands, channel bandwidth and building characteristics
DMS to Controller Management Security	HTTPS/SSL (cert)
Fronthaul and OTA Security	PDCCP ciphering
Fronthaul Interface	IP Ethernet LAN
Modulation Type	DL: QPSK, 16QAM, 64QAM UL: QPSK, 16QAM
Note	Two controller modules fit into one 1RU 19-inch chassis
Physical Interface	2x 10 GigE SFP+ Optical or Electrical 4x GigE SFP Optical or Electrical 7x GigE Electrical (10/100/1000)
Simultaneous RRC Connected Users	512
Timing and Synchronization	GPS via SMA connector IEEE 1588 v2 PTP
Virtual Sectors and Systems, maximum	4

BC-W2001

Dimensions

Height	44 mm 1.732 in
Width	242 mm 9.528 in
Depth	476 mm 18.74 in

Electrical Specifications

Input Current, maximum, specific	.85 A 1.7 A
Input Voltage Range	120/230 Vac - 50/60 Hz
Electrical Safety Standard	IEC 60950-1 Second Edition
Electromagnetic Compatibility (EMC)	47CFR Part 15 (CFR 47) Class A EN 55022, 2010/AC:2011 Class A EN 55024, 2010 ITE ICES-003, Issue 5 Class A
Power Consumption	100 W

Mechanical Specifications

Transportation Vibration Standard	ISTA-3A
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Environmental Specifications

Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
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Packaging and Weights

Weight, net	5.9 kg 13.007 lb
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Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives

