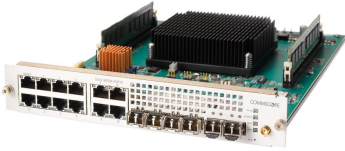


## ONECELL® Baseband Controller 2000 Controller Module



- 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

<b>Product Type</b>	Controller unit
<b>Product Brand</b>	ONECELL®

### General Specifications

<b>Technology</b>	LTE MIMO
<b>Application</b>	LTE delivery for public venues and large enterprises
<b>Backhaul Interface</b>	Enterprise broadband connection fiber, cable or DSL
<b>Backhaul Security</b>	IKEv2/IPSec with certificate mutual authentication
<b>Boot and Storage Security</b>	Secure Boot, Secure Storage (TrE)
<b>Cell Virtualization Reuse Factor</b>	Up to 4 virtual cells per physical cell, depending on channel bandwidth, deployment topology and usage.
<b>Controller to RP Management Security</b>	HTTPS/SSL PSK
<b>Core Network Interface</b>	S1-MME & S1-U
<b>Coverage Area</b>	Up to 1,000,000 square feet
<b>Coverage Area Note</b>	Depending on frequency bands, channel bandwidth and building characteristics
<b>DMS to Controller Management Security</b>	HTTPS/SSL (cert)
<b>Fronthaul and OTA Security</b>	PDPC ciphering
<b>Fronthaul Interface</b>	IP Ethernet LAN
<b>Modulation Type</b>	DL: QPSK, 16QAM, 64QAM   UL: QPSK, 16QAM
<b>Note</b>	Two controller modules fit into one 1RU 19-inch chassis
<b>Physical Interface</b>	2x 10 GigE SFP+ Optical or Electrical   4x GigE SFP Optical or Electrical   7x GigE Electrical (10/100/1000)
<b>Physical Sector Peak Throughput, uplink</b>	50 Mb/s
<b>Simultaneous RRC Connected Users</b>	512

# BC-W2001

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**Timing and Synchronization** GPS via SMA connector | IEEE 1588 v2 PTP

**Virtual Sectors and Systems, maximum** 4

## 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

## Environmental Specifications

**Operating Temperature** 0 °C to +40 °C (+32 °F to +104 °F)

## Packaging and Weights

**Weight, net** 5.9 kg | 13.007 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives

