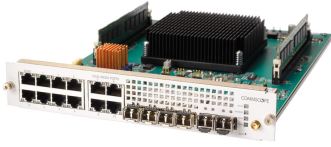


BC-W2001



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 | PDPC 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) |
| Physical Sector Peak Throughput, uplink | 50 Mb/s |
| Simultaneous RRC Connected Users | 512 |
| Timing and Synchronization | GPS via SMA connector IEEE 1588 v2 PTP |

BC-W2001

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 |

