

# 60 GHz cnWave V1000

## QUICK LOOK:

- Supports 57 to 66 GHz
- Up to 2 Gbps (1 Gbps UL and 1 Gbps DL)
- Auto-beamforming, 80° horizontal and 40° vertical
- TDMA channel access and TDD Network Synchronization
- 802.11ay standard technology with Terragraph certification



## DESIGNED FOR HIGH-SPEED AND HIGH-DENSITY DEPLOYMENTS

Cambium Networks' 60 GHz cnWave solution provides easy, fast and cost-effective wireless gigabit connectivity for edge access and/or high-capacity backhaul for edge access solutions at a significantly lower TCO than fiber infrastructure. Service providers and enterprises now have access to gigabit for business and residential connectivity, backhaul for Wi-Fi access or LTE/5G small cell. Certified for Facebook Terragraph, cnWave solutions are highly efficient at handling high-density deployments in cities and suburban areas.

V1000 is featured with wide-range, 80° beamforming for easy installation. Powered by 802.3af PoE, V1000 supports up to 2 Gbps with 1 Gbps in the uplink direction and 1 Gbps in the downlink direction.



## CLOUD AND ON-PREMISES MANAGEMENT

60 GHz cnWave operates with Cambium Networks' cnMaestro management system. cnMaestro™ is a cloud-based or on-premises software platform for secure, end-to-end network control. cnMaestro wireless network manager simplifies device management by offering full network visibility and zero-touch provisioning. View and perform a full suite of wireless network management functions in real time. Optimize system availability, maximize throughput and meet emerging needs of business and residential customers.

## 60 GHz cnWave V1000 Client Node

### Specifications

|                                      |   |  |  |
|--------------------------------------|---|--|--|
| <b>Spectrum</b>                      |   | <b>Performance</b>                     |  |
| <b>Frequency Range</b>               | 57 to 66 GHz in a single SKU                                | <b>Modulation &amp; Coding Schemes</b> | MCS-0 (BPSK) to MCS-10 (16-QAM)                      |
| <b>Channel Width</b>                 | 2.16 GHz, 4.32 GHz*   | <b>Latency</b>                         | < 1 ms   |
| <b>Carrier Bonding*</b>              | Up to 2 adjacent channels                                   | <b>Maximum EIRP</b>                    | 38 dBm   |
| <b>Mode of Operation</b>             | PMP Client or PTP   | <b>Antenna</b>                         |  |
| <b>Interface</b>                     |   | <b>Gain</b>                            | 22.5 dBi   |
| <b>Channel Access</b>                | TDMA/TDD  | <b>Type</b>                            | Integrated   |
| <b>Ethernet Interface</b>            | 1 x 100/1000 BaseT with PoE In                              | <b>Beamforming Scan Range</b>          | +/- 40° azimuth, +/- 20° elevation                   |
| <b>Networking</b>                    |   | <b>Beam Width</b>                      | 12°  |
| <b>Protocols Supported</b>           | IPv4, IPv6, Layer2 Bridge, Layer3 IPv6 Routing, Open/R mesh | <b>Powering</b>                        |  |
| <b>Network Management</b>            | cnMaestro, HTTP, HTTPS, SNMP v2c & v3                       | <b>Type</b>                            | 802.3af PoE  |
| <b>MTU</b>                           | 4,000 bytes   | <b>Power Consumption</b>               | 10 W   |
| <b>VLAN*</b>                         | 802.1ad (QinQ), 802.1Q with 802.1p priority                 | <b>Physical</b>                        |  |
| <b>QoS*</b>                          | 4 Level QoS, DSCP and VLAN Tag                              | <b>Environmental</b>                   | IP66/67  |
| <b>Security</b>                      |   | <b>Temperature</b>                     | -40°C to 60°C (-40°F to 140°F)                       |
| <b>Encryption</b>                    | 128-bit AES   | <b>Mean Time Between Failure</b>       | > 40 years   |
| <b>Firmware Security</b>             | Signed Firmware Images                                      | <b>Weight</b>                          | 0.25 kg (0.55 lbs)                                   |
| <i>* Available in future release</i> |   | <b>Dimensions</b>                      | 140 mm x 85 mm x 40 mm<br>(5.5 in x 3.3 in x 1.6 in) |
|                                      |   | <b>Wind Survival</b>                   | 200 km/h (124 mi/h)                                  |

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### Ordering Information

|                     |  |
|---------------------|--|
| <b>C600500C001A</b> | 60 GHz cnWave V1000 Client Node with US Cord                   |
| <b>C600500C003A</b> | 60 GHz cnWave V1000 Client Node with EU Cord                   |
| <b>C600500C004A</b> | 60 GHz cnWave V1000 Client Node with UK Cord                   |
| <b>C600500C008A</b> | 60 GHz cnWave V1000 Client Node with ANZ Cord                  |
| <b>C600500C009A</b> | 60 GHz cnWave V1000 Client Node with Brazil Cord               |
| <b>C600500C010A</b> | 60 GHz cnWave V1000 Client Node with Argentina Cord            |
| <b>C600500C011A</b> | 60 GHz cnWave V1000 Client Node with China Cord                |
| <b>C600500C012A</b> | 60 GHz cnWave V1000 Client Node with South Africa Cord         |
| <b>C600500C013A</b> | 60 GHz cnWave V1000 Client Node with India Cord                |
| <b>C600500C014A</b> | 60 GHz cnWave V1000 Client Node with no Cord                   |
| <b>C600500C016A</b> | 60 GHz cnWave V1000 Client Node with Israel Cord - Israel Only |

### ABOUT CAMBIUM NETWORKS

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.