cnWave™ 60 GHz V5000

Distribution Node

QUICK LOOK:

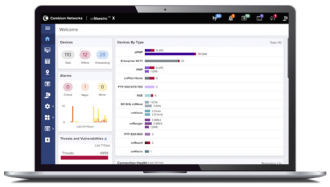
- Supports 57 to 66 GHz
- Dual-sector with 280° coverage
- Up to 7.2 Gbps (1.8 Gbps DL and 1.8 Gbps UL per sector). Channel bonding typically doubles capacity
- TDMA/TDD channel access and Network Synchronization
- 802.11ay technology with Terragraph certification



Designed for high-speed and high-density deployments

Cambium Networks' cnWave 60 GHz 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.

V5000 is featured with two sectors covering up to 280° with beamforming. A single V5000 can connect up to four other distribution nodes or up to 30 client nodes. V5000 can be used for PTP and PMP configurations.



cnMaestro READY

Cloud and on-premises management

cnWave 60 GHz 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.

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Client Node Model	V1000	V2000	V3000 44.5 dBi	V3000 40.5 dBi
Maximum Throughput in DL or UL	1 Gbps	1.8 Gbps	1.8 Gbps 2.7 Gbps with CB2	1.8 Gbps 2.7 Gbps with CB2
Maximum EIRP	38 dBm	49 dBm	60.5 dBm	54.5 dBm

Specifications

Spectrum

Frequency Range	57 to 66 GHz in a single SKU
Channel Width	2.16 GHz, 4.32 GHz*
Carrier Bonding*	Up to 2 adjacent channels
Mode of Operation	PMP or PTP

Interface

Channel Access	TDMA/TDD
Ethernet Interface	1 x 100/1000/10G BaseT with PoE In, 1 x 100/1000 BaseT with 802.3at PoE Out, 1 x SFP+ 1G and 10G

Networking

Protocols Supported	IPv4, IPv6, Layer2 Bridge, Layer3 IPv6 Routing, Open/R Distributed Networking
Network Management	cnMaestro, HTTP, HTTPS, SNMP v2c & v3
MTU	1,900 bytes
VLAN	802.1ad (QinQ), 802.1Q with 802.1p priority

Security

Encryption	128-bit AES
Firmware Security	Signed Firmware Images

** Available in future release*

Performance

Modulation & Coding Schemes	MCS-0 (BPSK) to MCS-12 (16-QAM)
Latency	< 1 ms
Maximum EIRP	38 dBm

Antenna

Gain	22.5 dBi
Type	Integrated
Beamforming Scan Range	+/- 140° azimuth, +/- 20° elevation
Beam Width	12°

Powering

Type	Passive PoE (42-57 V)
Power Consumption	65 W with AUX PoE Out in use, 35 W without AUX PoE Out in use

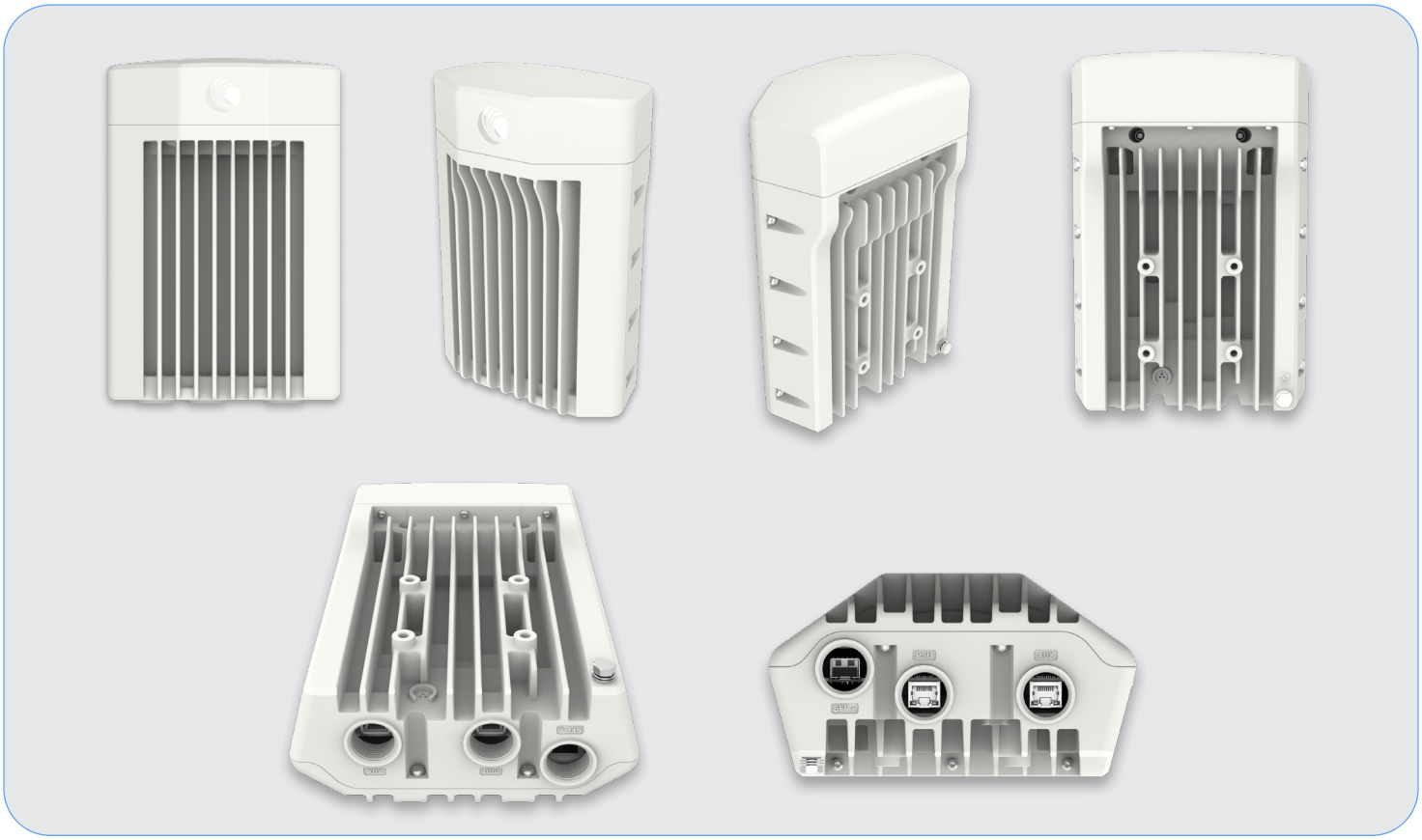
Physical

Environmental	IP66/67
Temperature	-40°C to 60°C (-40°F to 140°F)
Mean Time Between Failure	> 40 years
Weight	< 4 kg (8.8 lbs)
Dimensions H x W x D	280 mm x 186 mm x 103 mm (11.0 in x 7.32 in x 4.06 in)
Wind Survival	200 km/h (124 mi/h)

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cnWave™ 60 GHz V5000 Distribution Node



Ordering Information

C600500A004B	cnWave 60 GHz V5000 Distribution Node
C600500A005B	cnWave 60 GHz V5000 Distribution Node - Israel Only
C000000L136A	Universal Wall Mount Bracket
C000000L137A	Universal Pole Mount Bracket for 1 inch to 3 inch diameter poles

NOTE: Power Supply Unit must be ordered separately.

About Cambium Networks

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences, and device connectivity, with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We deliver connectivity that just works.

cambiumnetworks.com

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