cnWave™ 60 GHz V3000

High-Gain Client Node

QUICK LOOK:

- Supports 57 to 66 GHz
- Up to 3.6 Gbps (1.8 Gbps DL and 1.8 Gbps UL). Channel bonding typically doubles capacity
- Easy installation with auto-beamforming
- Low latency < 1 ms
- 802.11ay technology with Terragraph certification



terragraph
certified



cnMaestro READY

Designed for long-range, high-capacity 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.

V3000 is featured with a 44.5 dBi or 40.5 dBi high-gain antenna with beamforming. The Client Node (CN) can be used as either a client in PMP configurations or an end-point in PTP configurations.

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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cnWave™ 60 GHz V3000 Client Node

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 Client 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

Performance

Modulation & Coding Schemes	MCS-0 (BPSK) to MCS-12 (16-QAM)
Latency	< 1 ms
Maximum EIRP	60.5 dBm (with 44.5 dBi Antenna) 54.5 dBm (with 40.5 dBi Antenna)

Antenna

Gain	44.5 dBi or 40.5 dBi
Type	Integrated
Beamforming Scan Range	+/- 2° azimuth, +/- 1° elevation
Beam Width	0.8°

Powering

Type	Passive PoE (42-57V) without AUX PoE Out in use
Power Consumption	60 W with AUX PoE Out in use, 30 W without AUX PoE Out in use

Physical

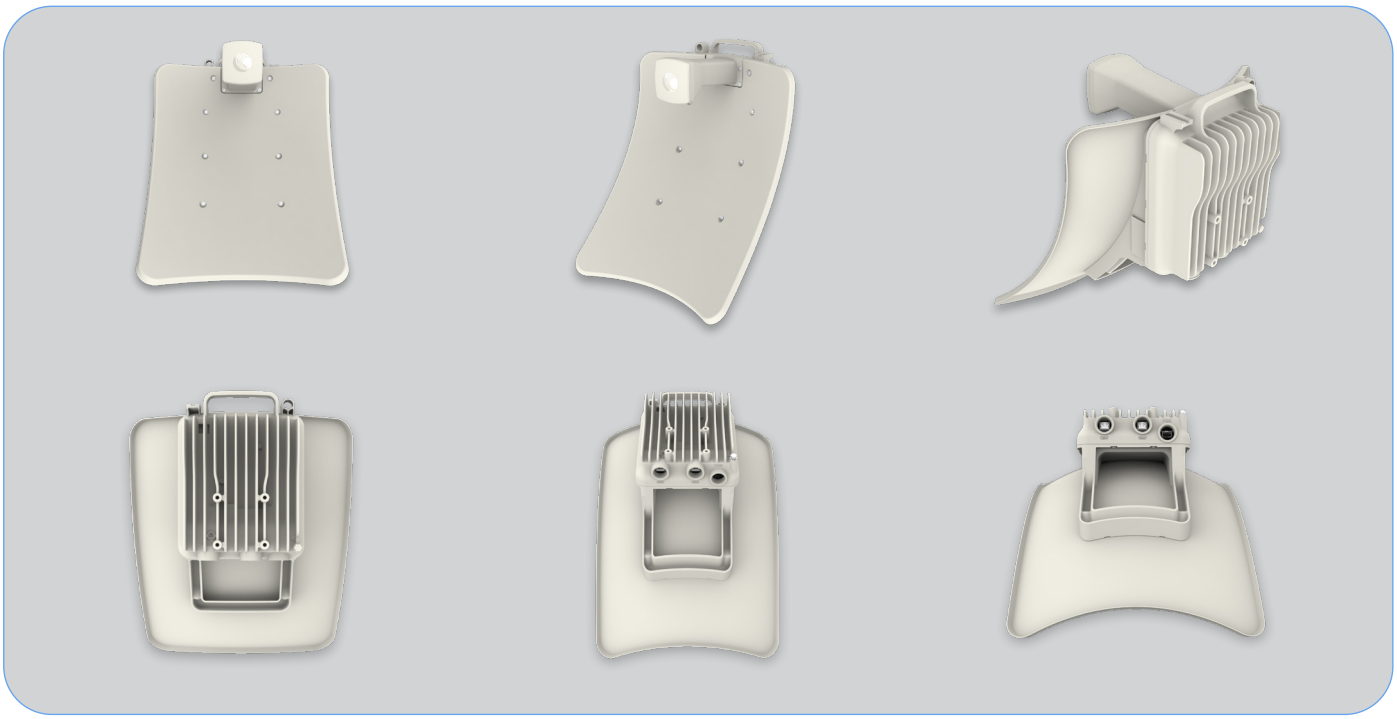
Environmental	IP66/67
Temperature	-40°C to 60°C (-40°F to 140°F)
Mean Time Between Failure	> 40 years
Weight	**V3000 with 44.5 dBi dish** 4.7kg (10.3 lbs.) without clamp **V3000 with 40.5 dBi dish** 3.9kg (8.6 lbs.) without clamp
Dimensions H x W x D	**V3000 with 44.5dBi dish** 421 x 347 x 349 mm (16.57 x 13.66 x 13.7 in **V3000 with 40.5dBi dish** 343 x 198 x 251 mm (13.5 x 7.8 x 9.9 in)
Wind Survival	200 km/h (124 mi/h)

* *Available in future release*

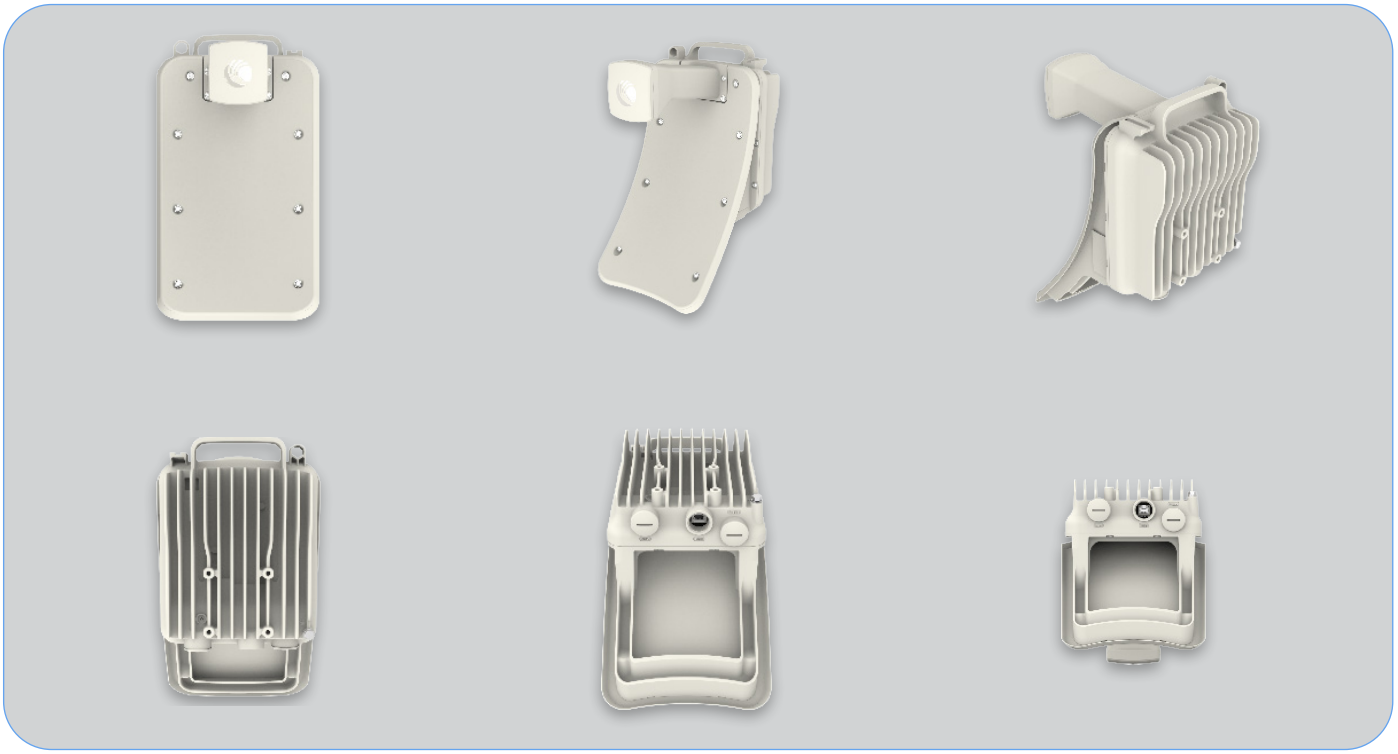
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cnWave™ 60 GHz V3000 Client Node

V3000 with 44.5 dBi Antenna



V3000 with 40.5 dBi Antenna



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cnWave™ 60 GHz V3000 Client Node

Ordering Information

C600500C024A	cnWave 60 GHz V3000 Client Node Radio Only
C600500C025A	cnWave 60 GHz V3000 Client Node Radio Only - Israel Only
C600500D002A	cnWave 60 GHz V3000 Client Node Antenna Assembly, 40.5 dBi, 4 Pack
C600500D003A	cnWave 60 GHz V3000 Client Node Antenna Assembly, 44.5 dBi, 4 Pack
N000045L002A	Tilt Bracket Assembly
C000000L125A	cnWave Precision Mounting Bracket

NOTE: Power Supply Unit must be ordered separately.

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.

cambiumnetworks.com

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