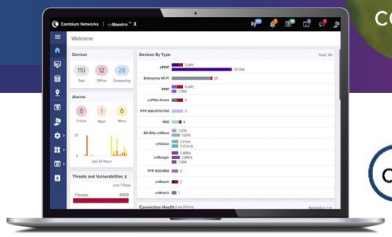
cnWave 60 GHz V5000i

Industrial Distribution Node

V5000i Quick Look

- Supports 57–66 GHz
- Dual sector with 280° coverage
- C1D2 and ATEX Cat3/Zone2 Certification for hazardous environments
- Up to 5.4 Gbps (aggregate speed)
- 802.11ay technology with Terragraph certification





cnMaestro

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 total cost of ownership (TCO) than fiber infrastructure. **Industrial operators now have access to multi-gigabit connectivity.**

V5000i features 2 sectors covering up to 280° with beamforming. A single V5000i can connect up to 4 other distribution nodes (DN) or up to 30 client nodes (CN). V5000i can be used for point-to-point (PTP), point-to-multipoint (PMP), and distributed mesh topologies.

Certified for Industrial C1D2 and ATEX

Now the V5000i (and V2000i) offer industrial operators the ability to deploy in hazardous environments. Certified to C1D2 HAZLOC and ATEX Equipment Group II for intrinsically safe deployments. This opens up many new applications where multi-Gbps capacity is required in hazardous areas such as oil refineries, well pads, pipelines, chemical plants, freight yards for hazardous material offloads, and ports.

Cloud and On-Premises Management

cnWave 60 GHz operates with Cambium Networks' cnMaestro™ Network Management System—available in both cloud-based and on-premises software platform for secure, end-to-end network control. cnMaestro 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.

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cnWave 60 GHz V5000i

Spectrum

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

*Available in future release

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	Signed firmware images

Certifications for Hazardous Environments

HAZLOC	HAZLOC Class 1 Location Division 2 Gas Groups A, B, C, D – acetylene, hydrogen, ethylene, and propane
ATEX, IECEx	IECEx, ATEX: Equipment Group II Category 3 / Zone 2 Gas Group IIC Temperature Class T4 – 135° C

Performance

Modulation & Coding Schemes	MCS-0 (BPSK) to MCS-12 (16-QAM)
Latency	< 1 ms
Maximum EIRP	38 dBm (may be reduced as far as 33 dBm, depending on selected gas group and region)

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cnWave 60 GHz V5000i

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	65W with AUX PoE out in use 35W 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 lb)
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)

Accessories

Power Supply	V5000i ships with the radio only. A suitable 42V-57V passive PoE injector should be used. Cambium offers an indoor PoE injector that must be installed in an approved ATEX/HAZLOC enclosure for those applications.
N000000L142A	PoE, 60W, 56V, 5GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector
N000900L031A	CABLE, UL POWER SUPPLY CORD SET, 720mm, US
C000000L123A	Cable Gland for 6-9 mm cable, M25, Qty 10
C000000L136A	Universal Wall Mount Bracket
C000000L137A	Universal Pole Mount Bracket for 1 inch to 3 inch diameter poles

Client Node Compatibility

	V1000	V2000i	V3000 44.5 dBi	V3000 40.5 dBi
Maximum Throughput in DL or UL (50/50 Tx/Rx Ratio)	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

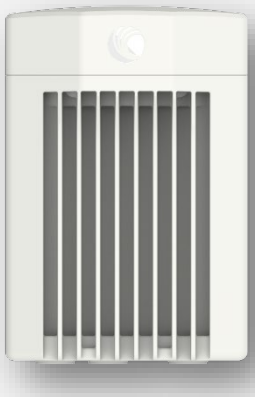
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cnWave 60 GHz V5000i



Front Oblique



Front



Back Oblique



Bottom Oblique



Back



Bottom

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cnWave 60 GHz V5000i

Ordering Information

C600500A104B	60GHz cnWave V5000i Distribution Node Radio 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.

Extended Warranty, Cambium Care, cnMaestro Ordering Information

CCPRM-SUP-V5000I-1	Cambium Care Prime, 1-year support for one V5000i . 24x7 TAC SLA support, SW updates, and ARAR for HW
CCPRM-SUP-V5000I-3	Cambium Care Prime, 3-year support for one V5000i . 24x7 TAC SLA support, SW updates, and ARAR for HW
CCPRM-SUP-V5000I-5	Cambium Care Prime, 5-year support for one V5000i . 24x7 TAC SLA support, SW updates, and ARAR for HW
CCADV-SUP-V5000I-1	Cambium Care Advanced, 1-year support for one V5000i . 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-SUP-V5000I-3	Cambium Care Advanced, 3-year support for one V5000i . 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-SUP-V5000I-5	Cambium Care Advanced, 5-year support for one V5000i . 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-V5000I-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-V5000I-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-V5000I-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCPRO-SUP-V5000I-1	Cambium Care Pro, 1-year support for one V5000i. 24x7 TAC support, SW updates
CCPRO-SUP-V5000I-3	Cambium Care Pro, 3-year support for one V5000i. 24x7 TAC support, SW updates
CCPRO-SUP-V5000I-5	Cambium Care Pro, 5-year support for one V5000i. 24x7 TAC support, SW updates
CCPRM-RNW-V5000I-1	Cambium Care Prime, 1-year support renewal for one V5000i . 24x7 TAC SLA support, SW updates, and ARAR for HW
CCPRM-RNW-V5000I-3	Cambium Care Prime, 3-year support renewal for one V5000i . 24x7 TAC SLA support, SW updates, and ARAR for HW
CCPRM-RNW-V5000I-5	Cambium Care Prime, 5-year support renewal for one V5000i . 24x7 TAC SLA support, SW updates, and ARAR for HW
CCADV-RNW-V5000I-1	Cambium Care Advanced, 1-year support renewal for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-RNW-V5000I-3	Cambium Care Advanced, 3-year support renewal for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-RNW-V5000I-5	Cambium Care Advanced, 5-year support renewal for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-RNW-V5000I-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support renewal for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-RNW-V5000I-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support renewal for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW

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cnWave 60 GHz V5000i

Extended Warranty, Cambium Care, cnMaestro Ordering Information, Continued	
CCADV-UPG-RNW-V5000I-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support renewal for one V5000i. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCPRO-RNW-V5000I-1	Cambium Care Pro, 1-year support renewal for one V5000i. 24x7 TAC support, SW updates
CCPRO-RNW-V5000I-3	Cambium Care Pro, 3-year support renewal for one V5000i. 24x7 TAC support, SW updates
CCPRO-RNW-V5000I-5	Cambium Care Pro, 5-year support renewal for one V5000i. 24x7 TAC support, SW updates
EW-E1CNWV5000I-WW	60 GHz V5000i Extended Warranty, 1 Additional Year
EW-E2CNWV5000I-WW	60 GHz V5000i Extended Warranty, 2 Additional Years
AR-E0CNWV5000I-WW	60 GHz V5000i Upgrade to All Risks Advanced Replacement Program during 3 year standard warranty
AR-E1CNWV5000I-WW	60 GHz V5000i All Risks Advance Replacement, 1 additional Year (includes standard warranty period)
AR-E2CNWV5000I-WW	60 GHz V5000i All Risks Advance Replacement, 2 additional Years (includes standard warranty period)

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 make connectivity that just works.

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