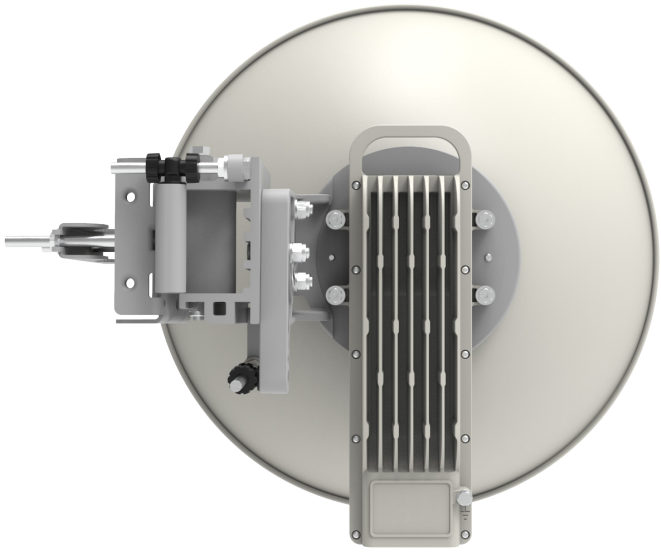
28 GHz cnWave™ Customer Premise Equipment

QUICK LOOK:

Cambium Networks unveils a simple, affordable yet powerful 5G NR solution for 24–29 GHz spectrum.

- **Throughput of over 400 Mbps aggregate**
- **5G NR protocol using SDR Architecture to enable continuous evolvement and enhancements**



KEY FEATURES

- Up to 400 Mbps of throughput at the CPE*
- Gigabit Ethernet Interface provides the maximum transfer rates to the device
- 802.3at PoE to allow standards-based powering of devices
- One radio model capable of operation from 24.25 GHz to 29.50 GHz spectrum, covering the most common 5G bands globally
- Optimized for throughput, high-gain integrated dish to maximize range

*Future software release

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Specifications

Product Model Numbers

CPE Radio	C280500C001A
Antenna Assembly	C280500D001A

Spectrum

Frequency Range	24.25 – 29.50 GHz
Channel Width	50*, 56, 100*, 112 MHz channels

Interface

MAC (Media Access Control) Layer	5G NR Air Interface
Physical Layer	OFDM
Ethernet Interface	100/1000BaseT, full duplex, rate auto negotiated (802.3 compliant)
Protocols Used	IPv4, UDP, TCP, IP, ICMP, SNMP
Network Management	IPv4/IPv6 (dual stack), HTTP, HTTPS, Telnet, FTP, SNMPv2c and v3, Cambium Networks cnMaestro™
VLAN	802.1ad (DVLAN Q-inQ), 802.1Q with 802.1p priority, dynamic port VID

Security

Encryption	FIPS-197 128-bit AES, 256-bit AES *(Requires Optional License for attached Access Point)*

Performance

Channel Size	DL MCS	DL Sensitivity (dB)	UL MCS	UL Sensitivity (dB)
112 MHz	MCS 23	-91.5	MCS 23	-78.5
	MCS 6	-111.1	MCS 6	-98.2
56 MHz	MCS 24	-93.3	MCS 22	-82.7
	MCS 6	-114.1	MCS 6	-101.2
Maximum EIRP	+48 dBm			
Hybrid ARQ	Yes, DL and UL			
Maximum Deployment Range	Up to 5 km (3.2 miles)			
Latency	1–2 ms, typical			
Quality of Service	Four levels*			

*Future software release

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Antenna

Antenna Connection	Integrated Reflector Dish
Integrated Antenna Peak Gain	36 dBi
Beam width - Azimuth	2°
Beam width - Elevation	2°

Physical

Mean Time Between Failure	> 40 years
Environmental	IP67, IP66
Temperature / Humidity	-40°C to 60°C (-40°F to 140°F), 100% non-condensing
Weight	Dish + Radio: 3.8 kg (8.4 lbs); with Precision bracket: 6.5 kg (14.3 lbs)
Wind Loading - Front Facing	@ 145 km/h (90 mph): < 207 N @ 200 km/h (124 mph): < 395 N
Dimensions	**Radio only:** 34 x 14 x 8 cm (13.9 x 5.5 x 3.1 in.) **Assembled unit:** 46 cm (18.1”) diameter, 24 cm (9.4”) depth
Power Consumption	20W maximum
Input Voltage	40–60 VDC
Mounting Brackets	C000000159A - 28 GHz cnWave Precision Bracket Kit C000000160A - 28 GHz cnWave Fine Adjust Bracket Kit

Certifications

ISED Canada	RSS-191, SRSP 342.25 & SRSP 325.25
FCC	CFR47 Part 101 & CFR47 Part 30
CE	EN 302 326-2, v2.1.0

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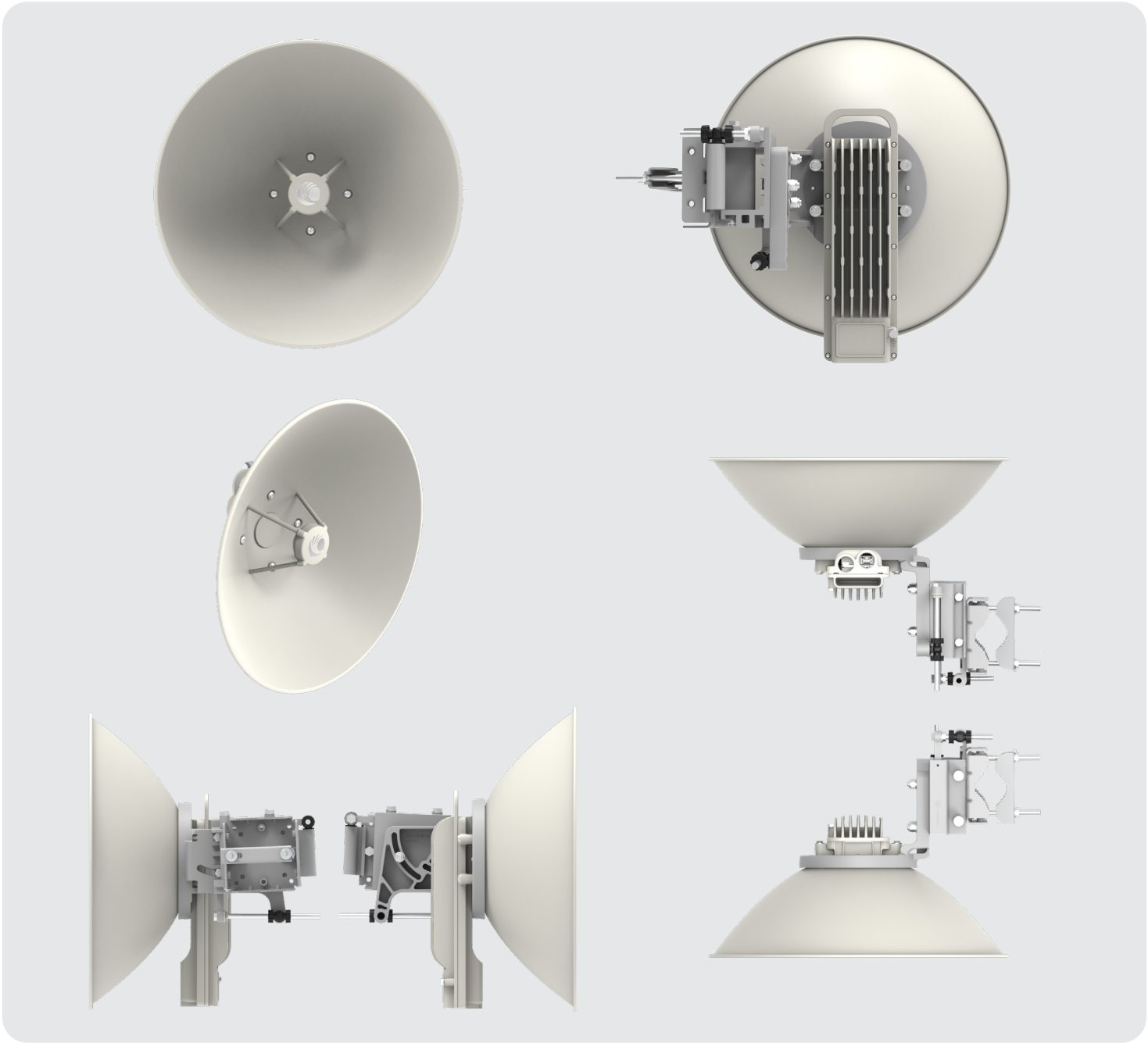

ABOUT CAMBIUM NETWORKS

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.

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