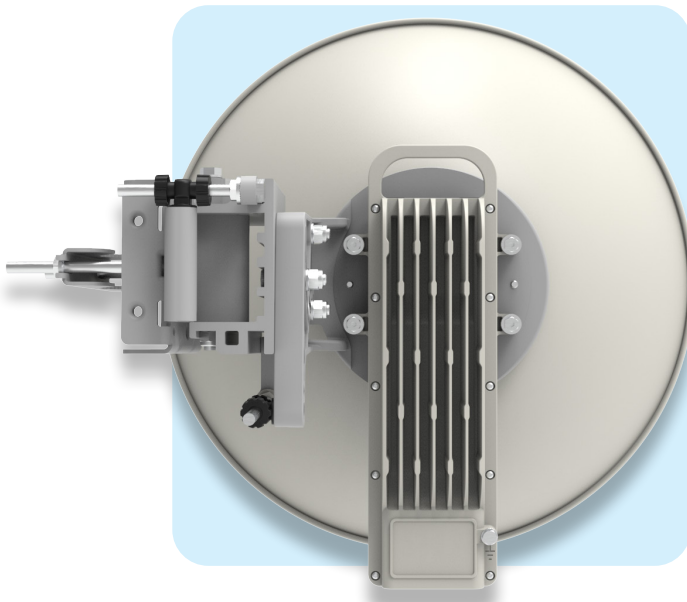


# cnWave™ 5G Fixed Customer Premises Equipment

## QUICK LOOK:

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

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

## cnWave™ 5G Fixed Customer Premises Equipment

### Specifications

Product Model Numbers		Spectrum		
C100 CPE Radio	C280500C001A	Frequency Range	24.25–29.50 GHz	
Antenna Assembly	C280500D001A	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 24	-98.5	MCS 23	-78.7
	MCS 6	-118.1	MCS 6	-98.2
56 MHz	MCS 22	-98.4	MCS 22	-82.7
	MCS 6	-119.2	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	6-8 ms, typical			
Quality of Service	Four levels			

## cnWave™ 5G Fixed Customer Premises Equipment

### 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

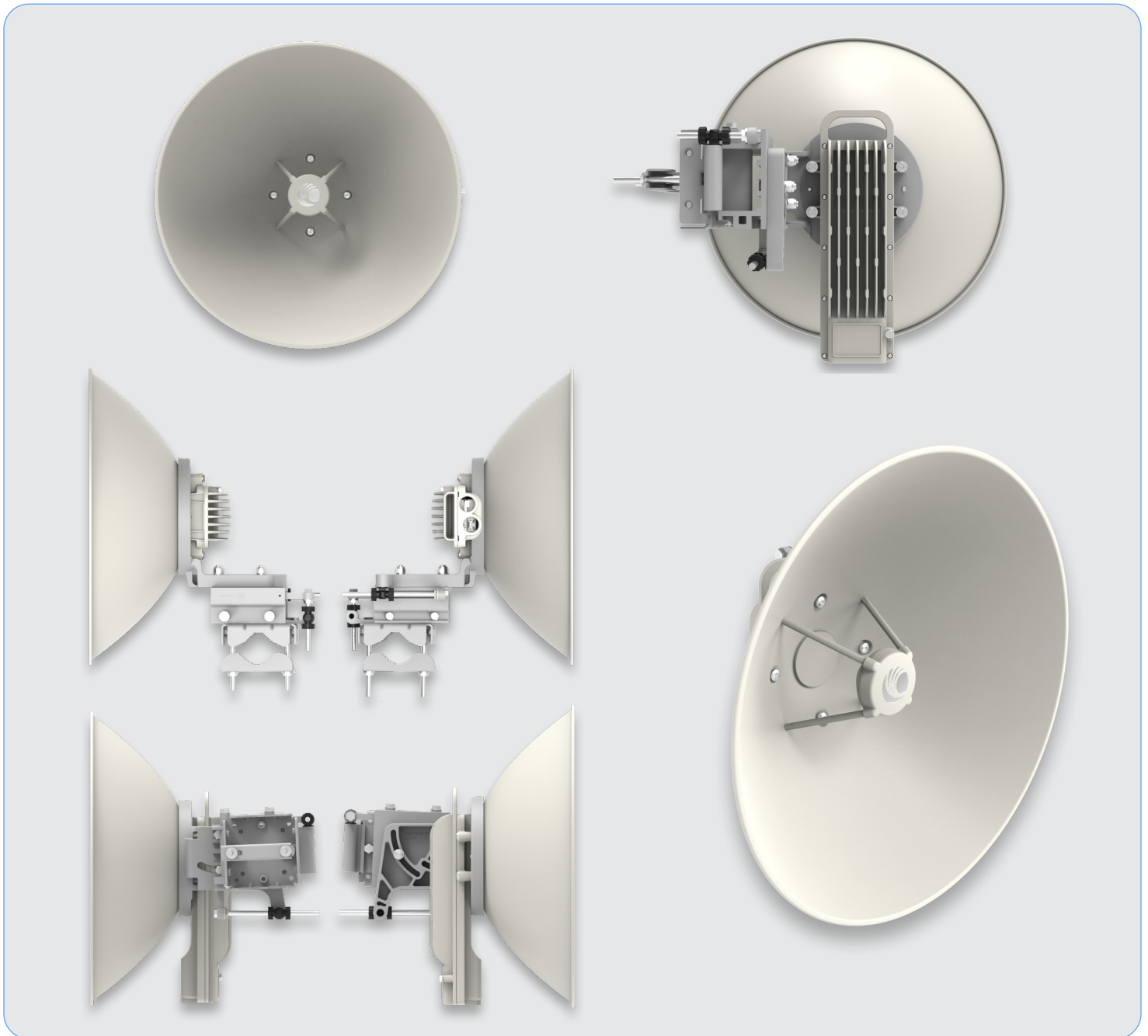
### Certifications

**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

## cnWave™ 5G Fixed Customer Premises Equipment



### 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](https://cambiumnetworks.com)

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