



Dual Antenna User Terminal (Fixed-73cm) OW70L-Dac

Overview

The Dual Antenna User Terminal OW70L-Dac is OneWeb's first LEO-only user terminal designed for high throughput performance and efficiency.

The OW70L-Dac user terminal enables fixed and mobile Telcos to cost-effectively expand their terrestrial networks in rural areas, reduce black spots, enhance resiliency when networks are down or when there is an unexpected surge in demand. The OW70L-Dac meets the needs of Large and Small & Medium Enterprises (SME) in rural areas where no fibre infrastructure is available and/or backup connectivity solutions are required.

The OW70L-Dac features two parabolic antennas operating in Primary/Secondary (P/S) mode. Both antennas are an identical size (73 cm reflector). Internally, the primary antenna includes a single subscriber module that governs the performance of both antennas. These two antennas are situated outdoors. A coaxial cable runs from the outdoor unit to a Customer Network eXchange (CNX) unit, located indoors. The CNX is the interface between the end user's equipment and OneWeb's network.

Connect with OneWeb connect@oneweb.net

Copyright © 2021 OneWeb. All rights reserved.

NEW CONNECTIVITY

FAST. AFFORDABLE. EVERYWHERE.





Dual Antenna User Terminal (Fixed-73cm) OW70L-Dac

Key Use Cases

- Rural/Remote Coverage
- Cellular Backhaul
- Seasonal Coverage
- Large Enterprise
- SME

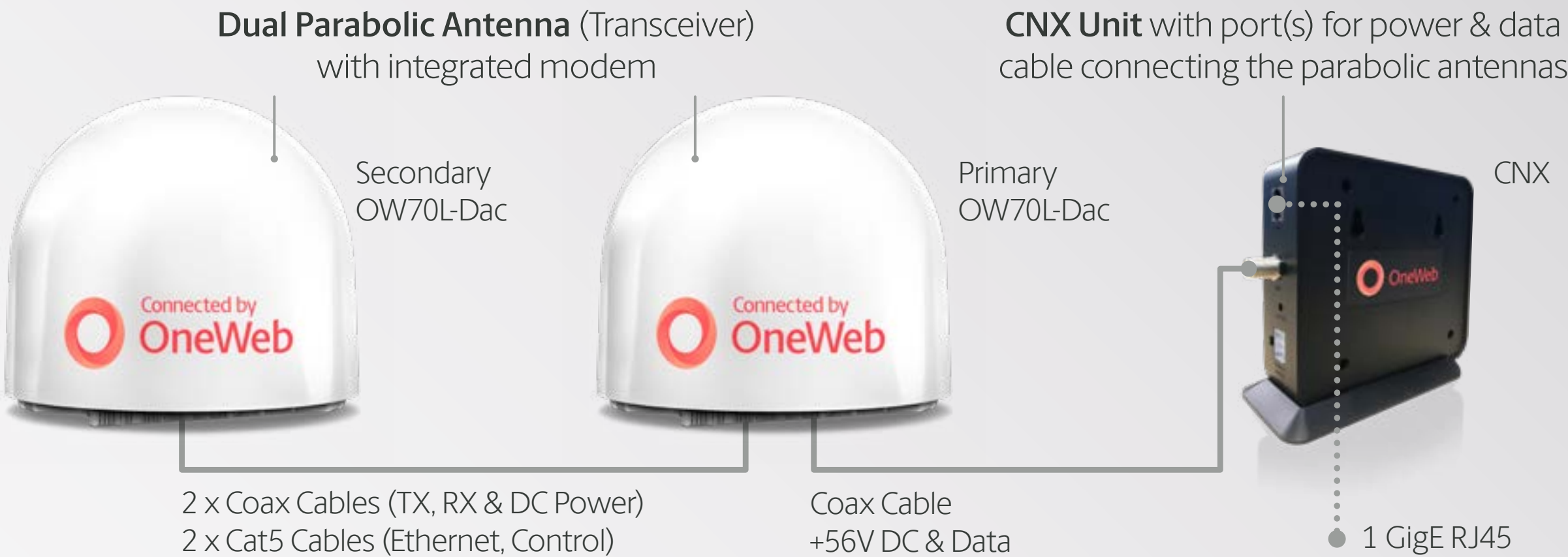
Main Features

- 12dB/K enables highly efficient connectivity services
- Cost-effective expansion of remote enterprise and cellular backhaul connectivity
- High-quality voice service offering
- High throughput performance up to 195Mbps Down / up to 32Mbps Up
- Easy installation and maintenance



Devices not shown to scale

Components, Configuration & Technical Specifications



Transceiver OW70L-Dac (Outdoor Unit)			
Physical		RF Performance	
Part Number	PS-OW70P	Rx Frequency Range	Ku Band 10.7-12.7GHz
Configuration	Dual Parabolic Antenna*	Tx Frequency Range	Ku Band 14.0-14.5GHz
Radome Height	77cm / 30"	G/T	12.2 dB/K at 11.8GHz
Radome Diameter	85cm / 33"	EIRP	36.6dBW/40MHz
Reflector Diameter	73cm / 29"	Polarization	Circular (Tx LHCP, Rx RHCP)
Antenna Weight	31kg / 68lbs	Field of View	+/- 53° from zenith, 360° azimuth
*All specifications are for a single parabolic antenna			
Environmental		Network Performance	
Operational Temperature	-25°C to +55°C	Receive Data Rate	Up to 195Mbps
Ingress Protection	IP66	Transmit Data Rate	Up to 32Mbps
Certifications	CE Mark, FCC, ETSI, RoHS, REACH	Supported Protocols/Encryption	IPv4/6, QoS Class Identifier/AES-128
		Duplex - Mode	Full-Duplex
Customer Network eXchange CNX (Indoor Unit)			
Part Number	CNX-B1	Power Supply Adapter Voltage	Universal AC Power (100-240V)
CNX Dimensions / Mount	22 x 18 x 5cm (8.5"x 7" x 2") / Desktop or wall mount	CNX and heaters to Transceiver Interface	+56V DC, RG6 or RG11, F-type connector
Data Interface	1 GigE RJ45		
Total Power Consumption: 150W typical			
Copyright © 2021 OneWeb. All rights reserved.			

Land



Dual Antenna User Terminal (Fixed-73cm) OW70LH-Dac

Overview

The Dual Antenna User Terminal OW70LH-Dac is OneWeb's first LEO-only user terminal designed to deliver low-latency, high throughput performance down to -40 degrees Celsius. This model has been designed for reliability in low temperatures and is suitable for 'switch on and leave' operations in the northern latitudes.

The OW70LH-Dac features two parabolic antennas, each with identical sized 73cm reflectors. Each antenna is equipped with a pre-installed Heater Module to extend the operational temperature down to -40 degrees Celsius.

Power adapter and coaxial cables are used to bring DC power to both heating modules. Internally, the primary antenna includes a single subscriber module that governs the performance of both antennas. A coaxial cable runs from the Primary Antenna to a Customer Network eXchange (CNX) unit, located indoors. The CNX is the interface between the end user's equipment and OneWeb's network.

Connect with OneWeb connect@oneweb.net

Copyright © 2021 OneWeb. All rights reserved.

NEW CONNECTIVITY

FAST. AFFORDABLE. EVERYWHERE.





Dual Antenna User Terminal (Fixed-73cm) OW70LH-Dac

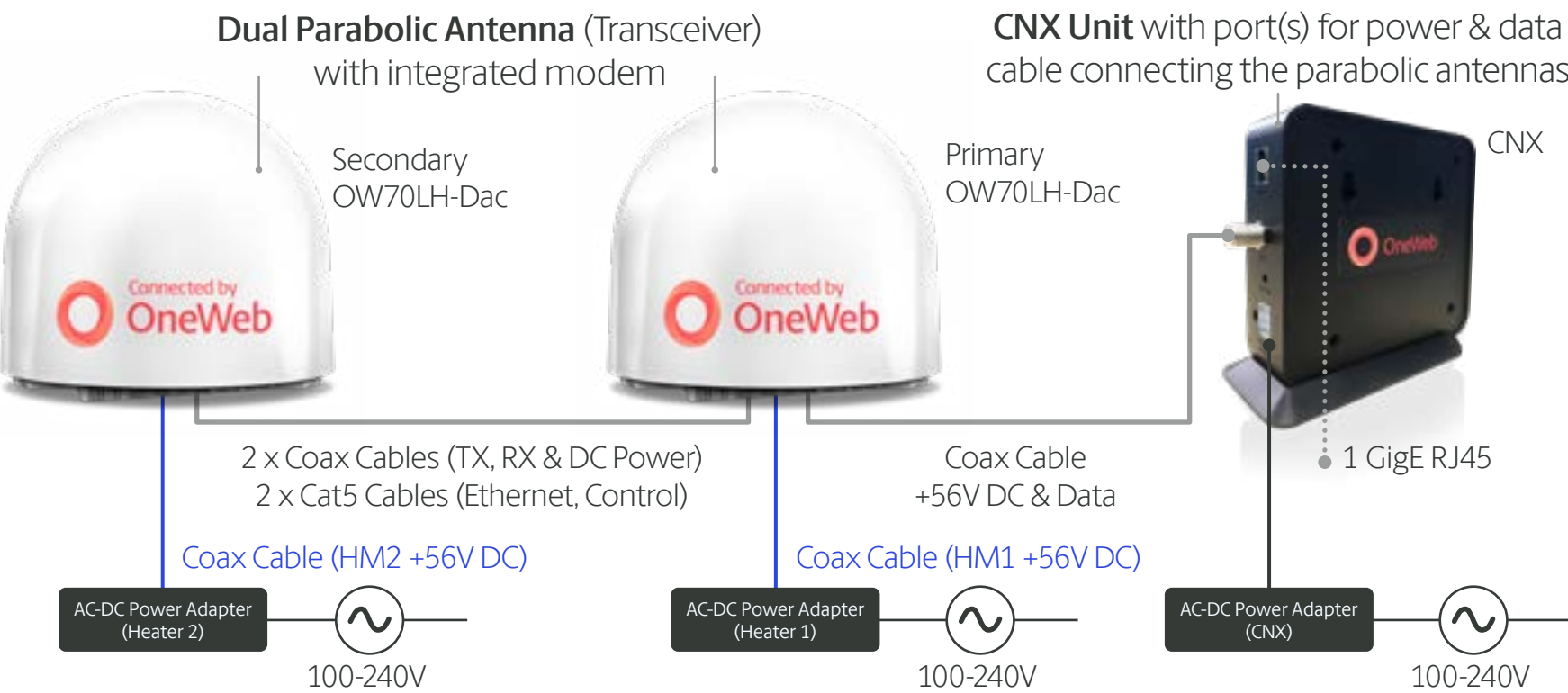
Key Use Cases

- Rural/Remote Coverage
- Cellular Backhaul
- Seasonal Coverage
- Large Enterprise
- SME

Main Features

- 12dB/K enables highly efficient connectivity services
- Cost-effective expansion of remote enterprise and cellular backhaul connectivity
- High throughput performance down to -40°C
- High throughput performance up to 195Mbps Down / up to 32Mbps Up
- Easy installation and maintenance

Components and Configuration



Technical Specifications

Transceiver OW70LH-Dac (Outdoor Unit)			
Physical		RF Performance	
Part Number	PS-OW70P-H	Rx Frequency Range	Ku Band 10.7-12.7GHz
Configuration	Dual Parabolic Antenna*	Tx Frequency Range	Ku Band 14.0-14.5GHz
Radome Height	77cm / 30"	G/T	12.2 dB/K at 11.8GHz
Radome Diameter	85cm / 33"	EIRP	36.6 dBW/40MHz
Reflector Diameter	73cm / 29"	Polarization	Circular (Tx LHCP, Rx RHCP)
Antenna Weight	33.6kg (Primary) 32.5kg (Secondary)	Field of View	+/- 53° from zenith, 360° azimuth
*All specifications are for a single parabolic antenna			
Environmental		Network Performance	
Operational Temperature	-40°C to +55°C	Receive Data Rate	Up to 195Mbps
Ingress Protection	IP66	Transmit Data Rate	Up to 32Mbps
Certifications	CE Mark, FCC, ETSI, RoHS, REACH	Supported Protocols/Encryption	IPv4/6, QoS Class Identifier/AES-128
		Duplex - Mode	Full-Duplex
Customer Network eXchange CNX (Indoor Unit) and Power Adaptors			
Part Number	CNX-B1	Power Supply Adapter Voltage	Universal AC Power (100-240V)
CNX Dimensions / Mount	22 x 18 x 5cm (8.5"x 7" x 2") / Desktop or wall mount	CNX and Heaters to Transceiver Interface	+56V DC, RG6 or RG11, F-type connector
Heater Power Adapter Dimensions / Weights / Max Wattage	Primary: 254 x 116 x 46mm / 1.8kg / 300W Secondary: 204 x 94 x 44mm / 1.1kg / 250W		
Data Interface	1 GigE RJ45		
Power Consumption			
User Terminal (Heaters off) 150W (typical)			
Heaters - 440W (Peak) 340W (continuous @-40°C)			