

OW70L-Dac

ONEWEB ENTERPRISE 12 DB/K
Dual Parabolic User Terminal



FEATURES

ONEWEB ENTERPRISE USER TERMINALS

The OW70L-Dac is the first reference user terminal which is able to utilize the OneWeb Low Earth Orbit (LEO) satellite constellation. The OW70L-Dac is a 73 cm dual parabolic 12 dB/K antenna with 3 axis stabilization platform allowing seamless and uninterrupted connectivity for LEO handovers.

SMALL, HIGH-PERFORMANCE

The technology behind our first LEO-only dual parabolic antennas integrates complex satellite communications technology into a simple UT specifically designed to meet the needs of many different sectors including small, medium and large enterprises. The OW70L-Dac is small and affordable compared with VSAT but with enhanced performance, it is able to provide fast-speed, low-latency and high capacity connectivity.

EASE OF DEPLOYMENT

Designed with cost-effectiveness in mind, the OW70L is light in weight while its packed specifically to allow ease of access. With only a single cable needed to provide data and power between indoor and outdoor units install time is significantly reduced.

ONEWEB LEO CONSTELLATION

Providing Global Coverage (Including both poles) One Web's 648 satellite constellation will provide "fibre like" high speed, low latency connectivity to remote customers where terrestrial fibre connections are not possible.

SEAMLESS, UNDISRUPTED CONNECTIVITY

The OW70L-Dac consists of a Primary-Secondary dual dome solution for consistent connection with LEO satellite handovers. The proven tracking performance can be achieved by precise technology which make the secondary antenna track a rising satellite before primary antenna loses a falling satellite. Also "Keyhole problem" avoidance design is implemented in the OW70L-Dac which enables the antenna to continue tracking normally even when the satellite is directly overhead.

LOW TEMPERATURE PERFORMANCE

Using elaborately designed heating device module, the OW70L-Dac ensures steady performance in extremely low temperature, -40 degrees Celsius. OneWeb is only LEO constellation committing to 100% coverage of Alaska and the OW70L will ensure the people of the Arctic have access to affordable and reliable broadband services.

OW70L-Dac

IRIDIUM SERVICES

OUTDOOR UNIT

Radome Height	77.0 cm / 30.3"
Radome Diameter	84.5 cm / 33.3"
Reflector Diameter	73 cm / 28.7"
Weight (Primary antenna)	33.0 kg / 72.8 lbs (Heating Module installed condition)
Weight (Secondary antenna)	32.0 kg / 70.5 lbs (Heating Module installed condition)
Azimuth Range	-300° to +300°
Elevation Range	-59° to 59°
Cross-level Range	± 10°
Tx Frequency	14.0 ~ 14.5 GHz
Tx Gain	38.4 dBi
Rx Frequency	10.7 ~ 12.7 GHz
Rx Gain	36.0 dBi
EIRP	33.6 dBW/20 MHz 36.6 dBW/40 MHz
G/T	12.2 dB/K (@11.8 GHz)
Polarization	Circular (Tx: LHCP, Rx: RHCP)

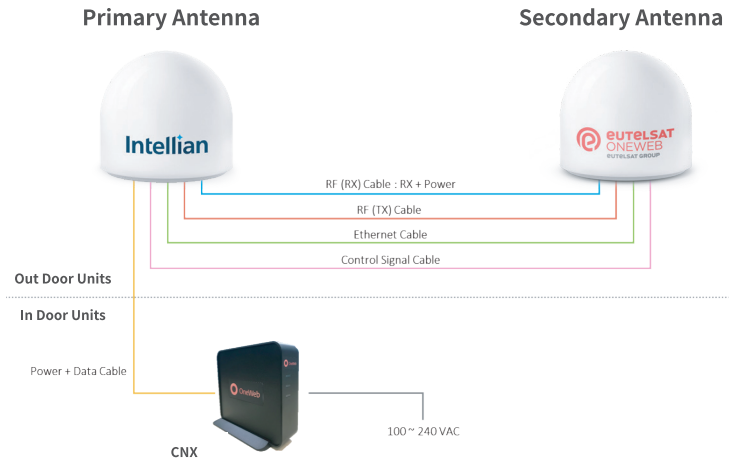
INDOOR UNIT

Dimensions (WxDxH)	3.52 cm x 12.5 cm x 11.4 cm / 1.38" x 4.92" x 4.49"
Weight	0.25 kg / 0.55 lbs
Interface	RJ45 Ethernet Port, RG6 / RG11 MoCA Port
LED	Power / Ethernet Access / MoCa Connection
Reset Button	Yes
Power Requirement	+56 VDC (from supplied AC/DC adapter (100~240 VAC))

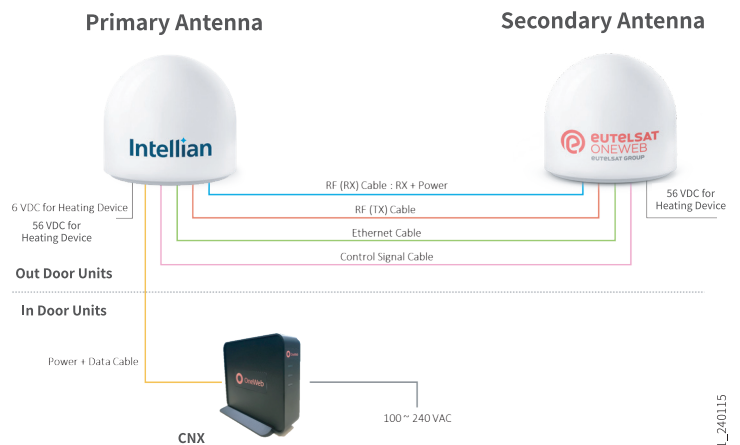
SYSTEM DIMENSION



SYSTEM DIAGRAM



SYSTEM DIAGRAM (HEATING MODULE INSTALLED CONDITION)



Global HQ

Innovation Center
Intellian Technologies, Inc
T +82 31 379 1000

APAC

Seoul
Intellian Technologies, Inc.
T +82 2 511 2244

Americas

Irvine
Intellian Technologies USA, Inc.
T +1 949 727 4498 Toll Free +1 888-201-9223

EMEA

Rotterdam
Intellian B.V.
T +31 1 0820 8655