Intellian

OW10HL
Compact Flat Panel for Land

eutelsat ONEWEB EUTELSAT GROUP

– SMALL ENTERPRISE
– GOVERNMENT
– BUSINESS CONTINUITY
– CELLULAR BACKHAUL

The OW10HL delivers unprecedented throughput in a user terminal of this size. Optimized for size, weight and power (SWaP), it features a low-profile weatherized design which delivers reliable connectivity to fixed site users.

Intellian's Flat Panel Series consists of a portfolio of Enterprise and Compact user terminals, based on active electronically scanned arrays (AESA) for Fixed Enterprise, Maritime and Land Mobility customers.

Optimized Performance

Utilizing Intellian's innovative antenna design, the OW10HL high performance in a compact form factor. The small size combined with low power consumption deliver the ideal connectivity solution for use cases that are SWaP constrained but still require the high-speed connectivity provided by the OneWeb network.

Seamless Connectivity

The OW10HL features Intellian's advanced tracking technology, facilitating continuous, reliable handovers even at the lowest elevation angles encountered in equatorial regions. Delivering the best performance at scan, the innovative flat panel technology facilitates seamless and undisrupted connectivity.

Extreme Temperature Performance

The OW10HL is designed to ensure dependable performance in even the most demanding environments, operating in extremely low temperatures down to -40 °C and up to +55 °C (-40 °F to 131 °F), delivering reliable broadband services for customers situated in the most remote locations.

Simplified Installation

The lightweight design and compact form factor enables easy installation by a single person. Designed for use with standard off-the-shelf mounting solutions, the OW10HL can be deployed in a variety of locations to suit the application and environment. Installation is further simplified through use of combined power and data over a single coax cable connecting the indoor and outdoor units. The use of Intellian's mobile app for site survey, automated configuration, and monitoring further reduces the time required to get online.

Customer Network Exchange

Intellian's Customer Network Exchange (CNX) units are a critical component of any OneWeb user terminal installation, providing both the power and data connectivity to the Flat Panel user terminal, and the connectivity to customer equipment and networks. CNX variants are offered for specific deployment scenarios including Land Fixed, Maritime and Land Mobility.

Mackay
Marine Electronics & Satellite Communications

OW10HL Technical Specifications

Outdoor Unit

Throughput (peak)	DL: 60 Mbps / UL: 10 Mbps
G/T	9 dB/K
EIRP	+36.6 dBW (Dual Carrier)
Field of View	+/- 55° from Zenith, 360° Azimuth
Size	56 cm x 45 cm x 12 cm (22" x 17.7" x 4.7")
Weight	8 kg (17.6 lb)
Power	180W (max) 150W (avg)
Ingress	IP66
Operating Temp	-40 °C to +55 °C (-40 °F to 131 °F)
Interface	F-Type conn

Installation

Standard 60mm end-cap included with flat panel for fixed land installation. Embedded hardware sensors and software compensates for true north and tilt error.

System Diagram

OUTDOOR UNIT

INDOOR UNIT

Power + Data over Coaxial Cable (100m with RG11)

CNX

100~240 VAC (CNX-WIFI)
100~240 VAC (CNX-RACK-AC)
-48 VDC (CNX-RACK-DC)
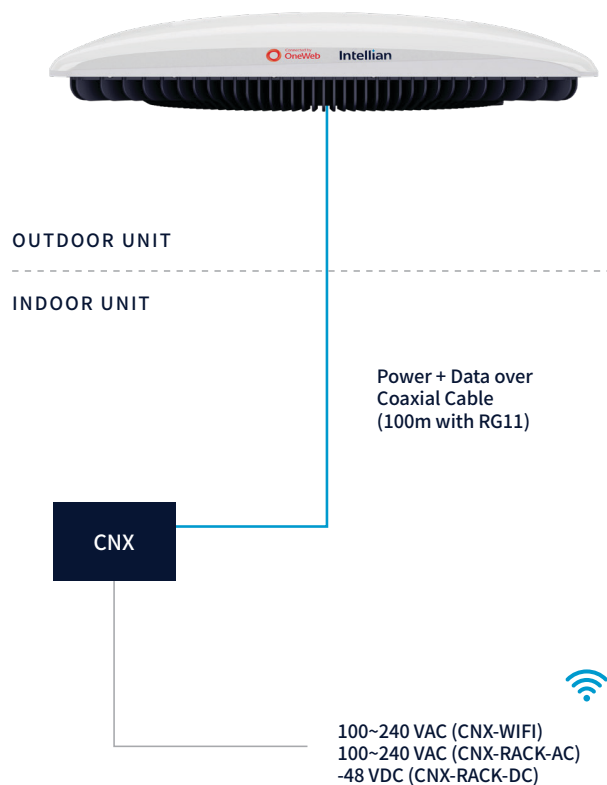
Indoor Units

	CNX-WIFI	CNX-RACK
Dimensions	21 cm x 17 cm x 8 cm (8.2" x 6.7" x 3.1")	44.2 cm x 25 cm x 4.4 cm (19" x 1 RU chassis)
Weight	0.6 kg (1.3 lb)	6.3 kg (13.9 lb)
Power	18 W (max), 8 W (avg)	30 W (max), 16 W (avg)
Operating Temp	0 °C to +40 °C (32 °F to 104 °F)	-25 °C to +55 °C (-13 °F to 131 °F)
Data Interface	WiFi-6 4-port GigE RJ45	8-port GigE RJ45, 1x USB (Type-A) 1x NMEA0183 / 1x NMEA2000
Power Input	Universal AC Power (100 – 240 VAC)	Dual 450 W Power Modules 100 – 240 VAC (CNX-RACK-AC) or -48 VDC (CNX-RACK-DC)

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An Intellian mobile application is available for installation, troubleshooting and monitoring.