Intellian

OW11FV
Enterprise Flat Panel for Land Mobility

eutelsat ONEWEB — eutelsat group

– GOVERNMENT
– TRANSPORTATION

The OW11FV is the ideal Flat Panel user terminal for Government and Transportation markets, delivering low-latency, high-speed connectivity and reliability for critical communications, safety, route planning, and entertainment.

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 OW11FV delivers the maximum throughput allowed on the OneWeb network. Offering the highest link margin, performance is guaranteed even over scan and at the lowest elevation angles, ensuring we meet the highest demands of land mobile customers.

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.

Seamless Connectivity

The OW11FV features Intellian's advanced tracking technology, extended scan range, and blockage mitigation, improves connection reliability and availability even while in motion. Delivering the best performance at scan, the innovative flat panel technology facilitates smooth reliable handovers, which ensure seamless and undisrupted connectivity.

Harsh Environment Performance

The OW11FV 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). Integrated radar rejection filtering ensures performance in high interference installations and reliable broadband services for customers situated in the most remote locations.

Simplified Installation

The lightweight design and compact form factor of the OW11FV enables easy installation by a single person. The universal mount design supports a variety of vehicle mounts. Installation is further simplified through use of combined power and data over a single coax cable connecting the outdoor and in-vehicle units. The use of Intellian's mobile app for site survey, automated configuration, and monitoring further reduces the time required to get online.
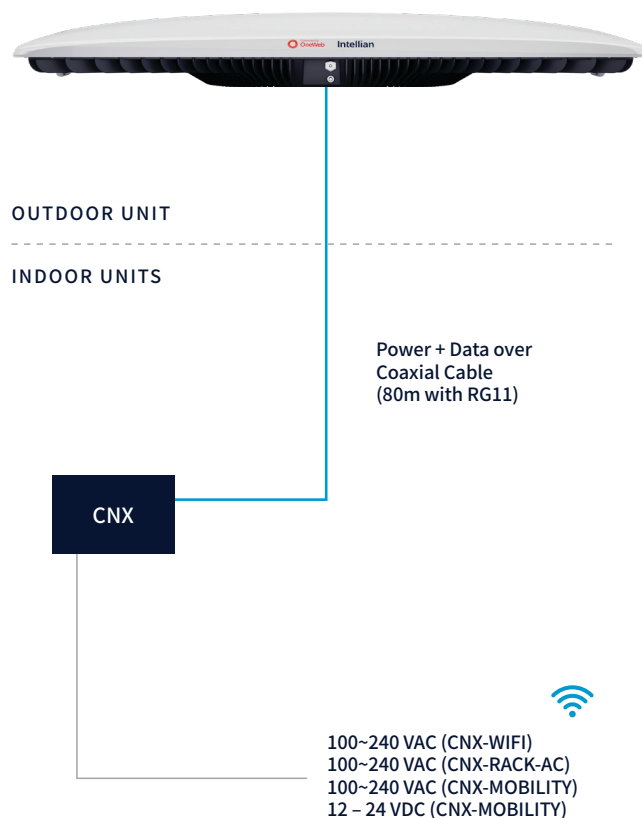
Mackay
Marine Electronics & Satellite Communications

OW11FV Technical Specifications

Outdoor Unit

Throughput (peak)	DL: 195 Mbps / UL: 32 Mbps
G/T	10.7 dB/K
EIRP	+36.6 dBW (Dual Carrier)
Field of View	+/- 70° from Zenith, 360° Azimuth
Size	96 cm x 50 cm x 12 cm (37.8" x 19.7" x 4.7")
Weight	16 kg (35 lb)
Power	340 W (max) 300 W (avg)
Ingress	IP66
Operating Temp	-40 °C to +55 °C (-40 °F to 131 °F)
Interface	F-Type conn

Installation

Magnetic, 8020T-Slot Mount, and custom mount options are available.

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

System Diagram

OUTDOOR UNIT

INDOOR UNITS

Power + Data over Coaxial Cable (80m with RG11)

CNX

100~240 VAC (CNX-WIFI)
100~240 VAC (CNX-RACK-AC)
100~240 VAC (CNX-MOBILITY)
12 – 24 VDC (CNX-MOBILITY)

Indoor Units

	CNX-WIFI	CNX-RACK-AC
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 – 240VAC)	Dual 450 W Power Modules 100 – 240 VAC

	CNX-MOBILITY
Dimensions	30 cm x 20 cm x 4 cm (11.8" x 7.9" x 1.6")
Weight	1 kg (2.2 lb)
Power	18 W (max), 8 W (avg)
Operating Temp	-25 °C to +55 °C (-13 °F to 131 °F)
Data Interface	4-port GigE RJ45 1x NMEA 0183 / 1x NMEA2000
Power Input	External Power Supply Adapter (AC and DC variants available)