

Intellian

OW11FM

Enterprise Flat Panel for Maritime



- MERCHANT
- SUPERYACHTS
- CRUISE
- ENERGY
- FERRY
- GOVERNMENT

The OW11FM is the ideal Flat Panel user terminal for the Cruise, Energy, Merchant and Ferry markets, delivering low-latency, high-speed connectivity and reliability for critical communications, crew welfare, 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 OW11FM 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 maritime and 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 OW11FM 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 uninterrupted connectivity.

Harsh Environment Performance



The OW11FM 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 at sea.

Simplified Installation



The lightweight design and optimal form factor of the OW11FM enables easy installation by a single person. The universal mount design supports standard maritime mounts. Installation is further simplified through use of combined power and data over a single coaxial cable connecting the below deck CNX units. The use of Intellian's mobile app for site survey, automated configuration, and monitoring further reduces the time required to get online.



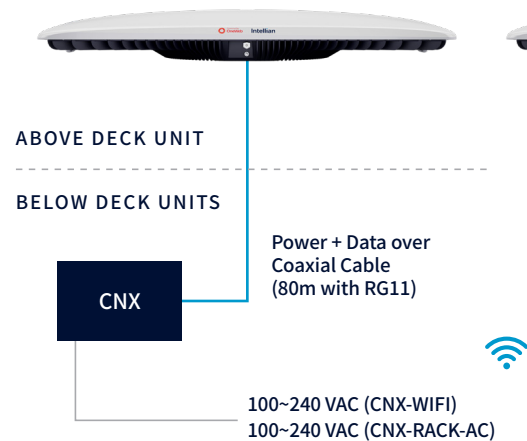
OW11FM Technical Specifications

Above Deck Unit

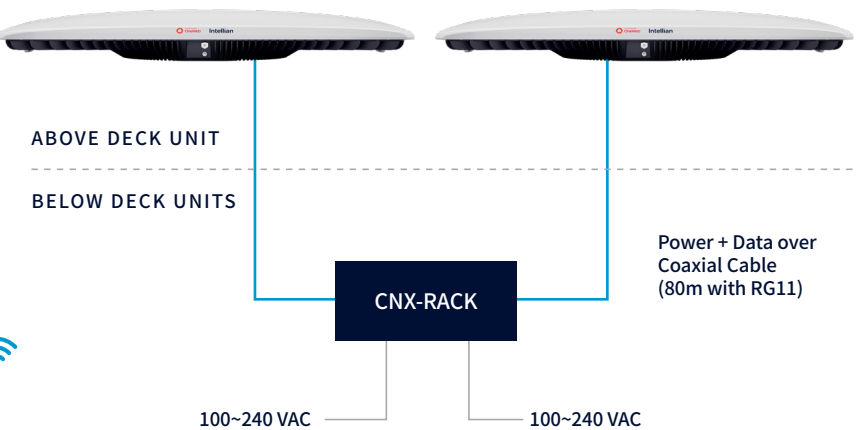
Throughput (peak)	DL: 195 Mbps / UL: 32 Mbps
G/T	10.7 dB/K
EIRP	+36.6 dBW (Dual Carrier)
Field of View	+/- 70° from Zenith, 360° Azimuth
Size	96 cm x 50 cm x 12 cm (37.8" x 19.7" x 4.7")
Weight	16 kg (35 lb)
Power	340 W (max) 300 W (avg)
Ingress	IP66
Operating Temp	-40 °C to +55 °C (-40 °F to 131 °F)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

System Diagram

Single Antenna Configuration with CNX



Dual Antenna Configuration with CNX-RACK



Installation

Mounting plate adaptor for maritime installation – Support for standard maritime wedge, vertical and mast mounts.

Below Deck 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 / 1xNMEA2000
PSA	Universal AC Power (100 – 240 VAC)	Dual 450 W Power Modules 100 – 240 VAC



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