

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 Land Fixed Enterprise, Maritime and Land Mobility customers.

Optimized Performance



Utilizing Intellian's innovative antenna design, the OW11FM delivers the maximum throughput allowed on the Eutelsat's OneWeb LEO (Low Earth Orbit) network. Offering the highest link margin, performance is guaranteed even over scan and at the lowest elevation angles, meeting the highest demands of maritime and land mobile customers.

Customer Network Exchange



Intellian's Customer Network Exchange (CNX) units are a critical component of the user terminal installation, providing both the power and data connectivity to the Flat Panel and the connectivity to customer equipment and networks. A range of CNX variants are offered for specific land deployment scenarios.

Seamless Connectivity



The OW11FM features Intellian's advanced tracking technology, extended scan range, and blockage mitigation that 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).

Simplified Installation



The lightweight design and optimal form factor of the OW11FM enables easy installation by a single person. Paired with Intellian's Maritime mount adapter kit, the UT is easily installed on pole, mast and pedestal mounts commonly used in the Maritime market. 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



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

Above Deck Unit

G/T	10.7 dB/k
EIRP	+36.6 dBW (Dual Carrier)
Dimensions	97 x 50 x 13 cm (38.2" x 19.7" x 5.1")
Weight	20.5 kg (45.1 lb)
Operating Temp	-40 °C to +55 °C (-40 °F to +131 °F)
Ingress	IP66
Interface	F-Type port SMA Port (*R-GNSS)
Downlink Throughput	**195 Mbps
Uplink Throughput	**32 Mbps

*For the approved and verified GNSS solution, please reference the User Manual.
**Performance subject to network configuration. Please consult your Eutelsat contact for service offerings in your region.

Below Deck Units

	 CNX-WIFI	 CNX-MOBILITY	 CNX-RACK
Dimensions	21 x 17 x 8 cm (8.2" x 6.7" x 3.1")	34 x 22 x 5 cm (13.4" x 8.7" x 2")	44.2 x 25 x 4.4 cm (19" x 1 RU chassis)
Weight	0.6 kg (1.3 lb)	1.5 kg (3.3 lb)	6.3 kg (13.9 lb)
Operating Temp	0 °C to +40 °C (+32 °F to +104 °F)	-25 °C to +55 °C (-13 °F to +131 °F)	-25 °C to +55 °C (-13 °F to +131 °F)
Ingress	IP44	IP56	IP31
Interface	WiFi-6 4-port GigE RJ45 F-type Port	WiFi-6 4-port GigE RJ45 F-type Port	8-port GigE RJ45 WiFi Dongle F-Type Port
PSA	External AC Power Supply	External AC Power Supply External DC Power Supply	Embedded 450 W Dual Power Modules

Installation

Intellian offers multiple mount adapter options for maritime applications, ensuring the installation process is simple and accommodates all the options commonly used in the maritime market.

Mount Adapters

	Pole Mount	Maritime
Mount Options	60mm Pole Mounts	Pedestal Mast
Dimensions	25 x 25 x 20 cm (9.8" x 9.8" x 7.9")	30 x 30 x 2 cm (11.8" x 11.8" x 0.8")
Weight	4.8 kg (10.5 lb)	1.8 kg (4 lb)

System Diagram

