

# Intellian



## OW10HM

Compact Flat Panel for Maritime



- FISHING VESSELS
- LEISURE VESSELS
- SMALLER VESSELS

The OW10HM is the ideal Flat Panel UT for the fishing and leisure markets, offering a small lightweight and sleek form factor, designed to outperform existing connectivity solutions.

### Optimized Performance



Utilizing Intellian's innovative antenna design, the OW10HM delivers optimal performance in a compact form factor making it the ideal connectivity solution for use cases that are SWaP constrained. The resulting solution provides the user experience and service levels for maritime applications that customers expect.

### Seamless Connectivity



The OW10HM features Intellian's advanced tracking technology improving connection reliability and availability, even on heavy seas and at the lowest elevation angles encountered in equatorial regions. Ensuring minimal loss over scan, the innovative flat panel technology facilitates smooth reliable handovers, which ensure seamless and uninterrupted connectivity.

### Harsh Environment Performance



The OW10HM 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 compact form factor of the OW10HM 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 coax 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.

### 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.

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.

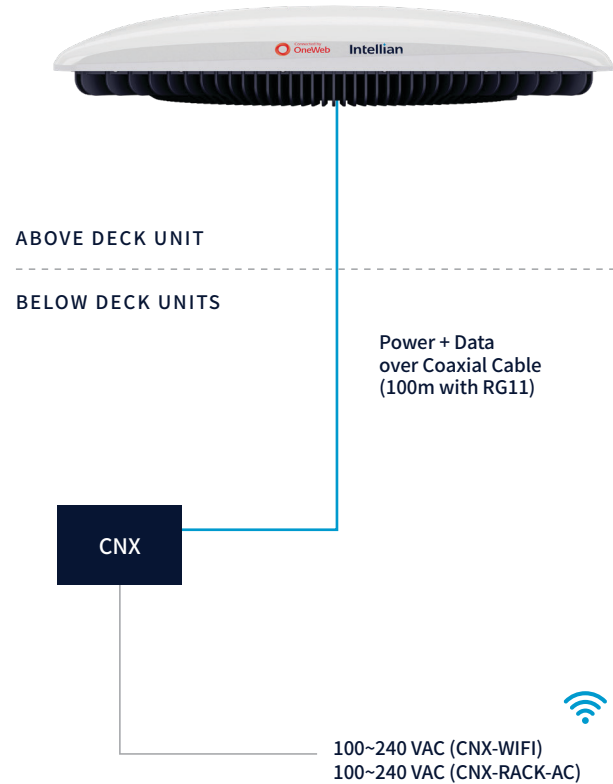


# OW10HM Technical Specifications

## Above Deck 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

## System Diagram



## Below Deck Units

	<b>CNX-WIFI</b>	<b>CNX-RACK</b>
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-RACK-AC)



## Installation

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



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



**Mackay Marine – High Seas**  
+1 281 479 1515 [marinesales@mackaymarine.com](mailto:marinesales@mackaymarine.com)  
**Mackay Communications, Satellite Solutions**  
+1 919 850 3100 [satserv@mackaycomm.com](mailto:satserv@mackaycomm.com)

**Mackay Marine Canada**  
+1 902 469 8480 [sales.canada@mackaymarine.com](mailto:sales.canada@mackaymarine.com)  
**Mackay Marine Alaska & Pacific Northwest**  
+1 206 282 8080 [NWSales@mackaymarine.com](mailto:NWSales@mackaymarine.com)