

OW10HM

Compact Flat Panel for Maritime



- FISHING VESSELS
- LEISURE VESSELS
- SMALL 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.

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 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 undisrupted 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).

Simplified Installation

The lightweight design and compact form factor of the OW10HM enables easy installation by a single person. Paired with Intellian's Maritime mount adapter, 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 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 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 maritime deployment scenarios.



OW10HM Technical Specifications

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

Above Deck Unit

G/T	9 dB/k
EIRP	+36.6 dBW (Dual Carrier)
Dimensions	56 x 45 x 12 cm (22” x 17.7” x 4.7”)
Weight	12.2 kg (26.9 lb)
Operating Temp	-40 °C to +55 °C (-40 °F to +131 °F)
Ingress	IP66
Interface	F-Type Port SMA Port (R-GNSS)
Peak Downlink Data Rate	*75 Mbps
Peak Uplink Data Rate	*14 Mbps

*Performance subject to network configuration. Please consult your Eutelsat OneWeb contact for service offerings in your region.

Below Deck Units

	 CNX-BB	 CNX-WIFI	 CNX-MOBILITY	 CNX-RACK-AC
Dimensions	13 x 12 x 4 cm (5.1” x 4.7” x 1.6”)	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	0.25kg (0.55lb)	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)	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	1-port GigE RJ45	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 DC Power Supply External AC Power Supply	External DC Power Supply External AC Power Supply	External DC Power Supply External AC Power Supply	Embeded 450 W Dual Power Modules

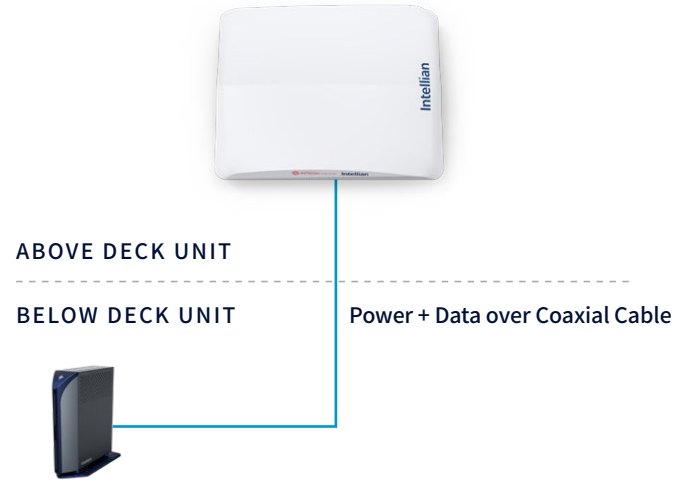
Installation

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

	Adjustable	Maritime
Mount Options	60mm Pole Mounts	Pedestal Mast
Dimensions	13 x 13 x 15 cm (5.1” x 5.1” x 1.9”)	30 x 30 x 2 cm (11.8” x 11.8” x 0.8”)
Weight	1.5 kg (3 lb)	1.8 kg (4 lb)

System Diagram



*All specs subject to change.

© Intellian Technologies, Inc. All rights reserved. Intellian and the Intellian logo are registered trademarks. All trademarks are the property of their respective owners. Information in this document is subject to change without notice. ISO9001 / ISO14001 Certified Intellian has more worldwide offices. Addresses, phone numbers, and fax numbers are listed on the Intellian Website at intelliantech.com