Intellian

OW10HV
Compact Flat Panel for Land Mobility

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– FIRST RESPONDERS
– TRANSPORTATION
– AGRICULTURE
– FORESTRY
– GOVERNMENT

The OW10HV is the ideal Flat Panel UT for the first responder, forestry and transportation 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 OW10HV 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 that customers expect.

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 deployment scenarios.

Seamless Connectivity

The OW10HV features Intellian's advanced tracking technology improving connection reliability and availability, even on rough roads 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 OW10HV 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 OW10HV enables easy installation by a single person. Paired with Intellian's Land Mobile mount adapter, the UT is easily installed on vehicles of any size. Installation is further simplified through use of combined power and data over a single coax cable connecting the outdoor and CNX unit. The use of Intellian's mobile app for automated configuration and monitoring further reduces the time required to get online.

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

Outdoor 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

*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.

In Vehicle Units

	CNX-BB	CNX-WIFI	CNX-MOBILITY	CNX-RACK
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 enables stramlined installation process through the offering of a land mobile mount adapter, which supports all major vehicle cross bar systems.
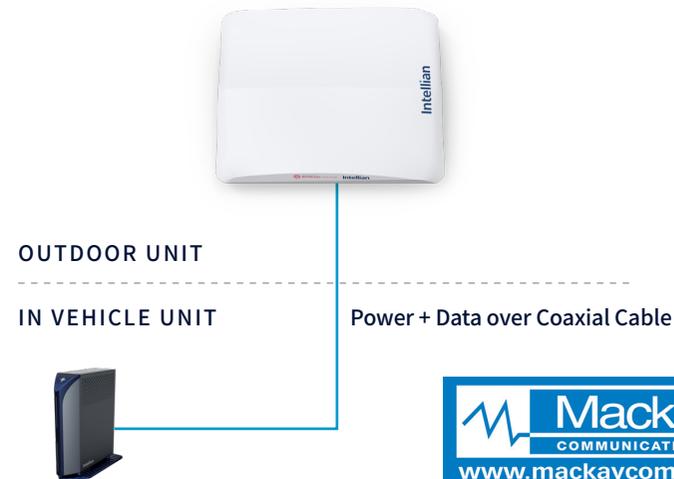
Land Mobile Mount Adapter

Mount Options	Vehicle Cross Bars
Dimensions	93 x 23 x 4 cm (36.6" x 9.1" x 1.6")
Weight	5 kg (11 lb)

System Diagram

OUTDOOR UNIT

IN VEHICLE UNIT   Power + Data over Coaxial Cable

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