



# Thuraya Orion IP

## The search for high quality, affordable broadband is over

Thuraya has a reputation as a leading provider of high quality satellite communications combining flexible and very competitive rates with a powerful and reliable network.

Our commitment to this demanding market has been further strengthened with the release of Thuraya Orion IP, a brand new broadband terminal, specifically designed for the harsh maritime environment.

Thuraya Orion IP provides merchant maritime, fishing, governmental and leisure users with competitively priced, robust and reliable data connectivity at rates up to 444kbps.

At a time when ship owners and operators are on the hunt for solutions and services that maximize operational effectiveness of the fleet as well as minimizing operational expenditure, Thuraya Orion IP is the natural choice.

## Product applications

 **Email**

Email applications optimized for satellite networks with full control and visibility for the ship manager.

 **Video conferencing**

Use video conferencing for remote diagnostics, day-to-day meetings and telemedicine.



### Chart updates

Conform to the latest ECDIS regulations and ensure your vessel has the latest electronic navigation charts.



### Remote IT Support

Rectify IT issues from your office that would have previously required a costly and time consuming vessel visit.



### Vessel tracking

Get up-to-date information on the location of your assets via a comprehensive web portal, regardless of your location.



### Condition-based monitoring

Engines and machinery are increasingly being monitored from shore. Trends in temperature, pressure and fuel consumption can be viewed with potential problems addressed before they have an impact on the vessel's operations.



### Crew welfare

Using applications such as in instant messaging, Social Media services and Voice over IP, you can keep your crew happily connected to their friends and family.

## Product overview

Thuraya Orion IP is a maritime-specific broadband terminal manufactured in partnership with Hughes Network Systems, which supports broadband data communications at speeds up to 444kbps.

The terminal features a combination of highly flexible features including:

- Small and lightweight
- Easy installation
- Built-in Wi-Fi
- MAC address filtering
- Port forwarding
- DHCP

Suitable for both business and crew communications, the terminal has been designed for users who want to take advantage of a simple IP connection to leverage the value-added hardware and software solutions provided to them by the Thuraya Service Partners.

## Technical specifications

### Data service

<b>Standard IP</b>	Up to 444/404kbps
<b>Streaming IP</b>	Up to 384/384kbps, available in symmetric and asymmetric configurations of 16, 32,64,138, 256 and 384kbps

### Physical characteristics

<b>Weight (ADU)</b>	4.0 kg
<b>Weight (BDU)</b>	2.2 kg
<b>Size (ADU)</b>	319.5mm x 277mm
<b>Size (BDU)</b>	46mm x 281mm x 233mm

### Key interfaces

<b>Connectors</b>	4 Ethernet (PoE-IEEE 802.3af standard), DC input, WLAN port, Fuse, Sim slot
<b>User interface</b>	Web-based graphical user interface accessible via standard web browser
<b>External connector</b>	Thuraya Satellite tracking antenna HN321 (Maritime)
<b>WLAN connectivity</b>	IEEE 802.11 b/g/n standard with: - WEP, WPA and WPA2 encryption - SSID broadcasting control - MAC address filtering - DHCP

### Environmental

<b>Operating Temperature (ADU)</b>	-30°C to +55°C
<b>Operating Temperature (BDU)</b>	-25°C to +55°C
<b>Storage Temperature (ADU)</b>	-45°C to +80°C
<b>Storage Temperature (BDU)</b>	-40°C to +80°C
<b>Ingress protection (ADU)</b>	IP 56
<b>Ingress protection (BDU)</b>	IP 20
<b>Operating Humidity</b>	95% RH at 40°C

### External power

<b>Main power input</b>	10-32VDC
<b>Maximum current</b>	12A

### Others

<b>Max RF cable loss</b>	If a different cable is required for the installation, the end-to-end RF loss needs to be 10dB +0dB/-8dB at 1.6GHz and the cable must be 50 Ohm impedance.
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