



ORION NEO

HIGH-PERFORMANCE MARITIME SATELLITE COMMUNICATIONS SOLUTION

Maritime connectivity without limits: ensures fast, reliable voice and data links between vessel or any maritime asset and shore, no matter the conditions at sea.

Built for the toughest waters: compact, rugged, and weatherproof, designed specifically to thrive in demanding maritime environments.

Smooth sailing, always online: keeps mission-critical operations running and crew welfare high with easy access to secure internet and voice calling.



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Specifications

Dimensions:

Antenna height: 9.7 mm
Antenna width: Ø 32.1 mm

Weight 4.8 kg

Data Capabilities

> 50° elevation: Tx: Up to 1024 kbps (no ship roll)
Rx: Up to 1024 kbps (30° ship roll)

> 20° elevation: Tx: Up to 1024 kbps (no ship roll)
Rx: Up to 600 kbps (30° ship roll)

> 10° elevation: Tx/Rx: Up to 600 kbps (no ship roll)

Voice: Standard VoIP,
Embedded SIP Server
PTT with Mobile Gateway Neo

Frequency Range:

Tx (MHz) 1626.5 - 1660.5 and 1668 - 1675
Rx (MHz) 1518.0 - 1559.0

GNSS: GPS, Galileo, Beidou, Glonass

Languages: EN, AR, FR, PR, ES, RU, JP, CN

Approvals: CE, RED, RoHS, WEEE, FCC, UL, RCM
Thuraya Type Approval

Environmental conditions

Temperature

Operational (*ambient*): -25 to +55°C at min. 1m/s windload
Storage: -40°C to +85°C

Relative humidity: MIL-STD-810G, Test method 507.6

EMI/EMC: EN 01-301489, EN 17-301489,
EN 19-301489

Water and dust: IP68

Power

DC input range: 12 to - 24 VDC
(Max. 10.8 to 32 VDC)

Power (*max*): 70W (@32 - 10.5V)

Interfaces

WLAN Access Point: 802.11 b/g/n/ac

Ethernet: 10 / 100 / 1000 mbps

Combined DC power and Ethernet connector:

Combined connector providing DC power input, ignition and Ethernet (PoE 802.3bt Type 3) connectivity.

User interface: One LED (Status), Web Interface, Reset Button, SIM card connector

Package

- Thuraya Orion NEO Maritime Antenna
- Mast Mount
- Quick Start Guide

Accessories

- 403723B-009: Magnetic Mount kit
- 403706B-050: Connection Box
- 408030A-931: Hybrid DC / Ethernet cable, 6m open-ended
- 408030A-941: PoE connection cable (Cat6A), 6m open-ended
- 408030A-945: PoE connection cable (Cat6A), 25m open-ended
- 408030A-948: PoE connection cable (Cat6A), 50m open-ended

