

# Commander NEO

High-Speed MIL-Graded Satellite Antenna for On-The-Move

**COBHAM**  
**SATCOM**  
Connecting the future

Product Sheet



Commander NEO with hybrid power and ethernet cable

## Setting new standards

Commander NEO is a compact military-graded satellite terminal for voice and data communication on-the-move. The one-piece system consists of a combined transceiver and a switched-beam antenna with no moving parts.

The terminal is designed for the Thuraya T4-NGS satellite from Space42 offering significantly higher throughput than today. With speeds at 1024 kbps from a vehicular terminal, the Commander NEO represents a new era for on-the-move L-band satellite terminals by setting new standards.

Whether you're engaged in humanitarian or military operations, you need easy deployable communication equipment you can always rely on - regardless of time or place.

## Instant communication

Simply place the antenna on the roof - it is easily mounted either fixed or with the optional magnetic mount kit - power on the device and connect it to your laptop through the optional connection box to turn the vehicle into a mobile communication hub.

## Groundbreaking speeds

With speeds above 1 mbps on the Thuraya 4-NGS satellite, the Commander NEO provides the fastest on-the-move broadband IP speeds for a satellite broadband antenna of its size — ready for connection in any location covered under Thuraya's satellite network.

## No moving parts

The beam-switching antenna is ultra compact and lightweight (just 4.8 kg) with no moving parts. It is robust and designed for communication on-the-move on vehicles and trains in even the harshest environments.

## Broadband satellite connectivity made simple

Commander NEO is easy to set-up and to operate. The user interface is intuitive and can be accessed from a PC or any kind of smart device.

With the Connect App you can use your smart device to make calls or easily access the internet even in areas with no terrestrial or cellular coverage. The Connect App is available on Android and IOS.

## System features

- Type Approved for the Thuraya L-Band network
- MIL-STD-810 and MIL-STD-461 certified
- Robust weatherproof IP68 design
- Fast to deploy in the field and easy to operate
- Versatile power options with both Power over Ethernet (PoE) and 12 - 24 VDC input
- Supports Space42 eSIM and USIM
- Integrated antenna and transceiver

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## Specifications

### Dimensions:

Height: 11.7 cm (with 3 cm spacers)  
Width: Ø32.1 cm

**Weight:** 4.8 kg

### Data Capabilities:

> 5° elevation: Up to 1024 kbps (Rx / Tx)

**Voice:** Standard VoIP, Embedded SIP Server

### Satellite frequency range:

Tx (MHz) 1626.5 - 1660.5  
Rx (MHz) 1525.0 - 1559.0

**GNSS:** GPS, Galileo, Beidou, Glonass

**Languages:** ENG, AR, FR, DE, ES, RU, JP, CN

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

## Environmental conditions

### Temperature

Operational: -25°C to +55°C (ambient)  
Storage: -40°C to +85°C

**Water and dust:** IP68

**MIL-STD-810G:** Method 503.6 (Temperature shock)  
Method 505.6 (Solar Radiation)  
Method 506.6 (Rain)  
Method 507.6 (Humidity)  
Method 509.6 (Salt fog)  
Method 510.6 (Sand and Dust)  
Method 512.6 (Immersion)  
Method 516.7 (Drop)  
Method 524.1 (Freeze/Thaw)

**EMI/EMC:** MIL-STD-461H

## Power

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

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

## 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. Hybrid cable wiring: Power 2, Ignition 1, Ethernet 4 + 1 (shield)

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

## Other features

### Thuraya Connect App:

Turns a Smartphone into a Satphone. Available for Android / IOS.

### Set-up and Router Functionality:

Webserver, NAT Router, Admin control (password protected), DHCP, Network Management, Remote Management, PPPoE

### Mobile Gateway:

Ruggedized satellite router with advanced PTT and VoIP capabilities

## Package

- Commander NEO Terminal with 3cm spacers
- Quick Start Guide
- 6m hybrid DC power and Ethernet cable (open ended)
- 1cm spacers

## Accessories

- 408030A-009: Magnetic Mount Kit for NEO terminals
- 408052A-42000: Space42 Mobile Gateway M NEO
- 408030A-931: Hybrid DC/Ethernet connection cable, 6m
- 408030A-93: Hybrid DC/Ethernet connection cable (25m open ended)
- 403706B-050: Connection box for NEO and EXPLORER terminals
- 408030A-941: PoE Connection Cable (Cat6a), 6m
- 408030A-945: PoE Connection Cable (Cat6a), 25m open-ended

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**SPACE 42**