cygnus

Thuraya IP NEO M

Portable, Mission-Grade Satellite Broadband Anywhere

Thuraya IP NEO M is a compact, portable L-band satellite broadband terminal designed for field teams that require fast, secure, and reliable communications anywhere. Powered by the Thuraya-4 next-generation satellite, it delivers up to 1024 kbps IP connectivity, enabling voice, data, and local Wi-Fi without reliance on terrestrial infrastructure.

Built for rapid deployment, IP NEO M turns austere and remote locations into secure IP nodes within seconds, making it ideal for time-critical missions, mobile teams, and temporary field operations.

Built for Harsh and Unpredictable Environments

Engineered to military-grade standards, IP NEO M is ruggedised to withstand sand, salt, heat, rain, shock, and electromagnetic interference. Its sealed IP68 design ensures dependable performance in extreme field and maritime conditions, while its compact form factor allows easy transport and deployment by a single operator.

With resilient L-band connectivity and full environmental hardening, IP NEO M is built to operate where traditional networks cannot.

Instant Connectivity. Anywhere.

From mobile command posts and site surveys to disaster recovery and forward operations, IP NEO M delivers immediate, secure communications when and where they are needed most. Integrated Wi-Fi, Ethernet, and VoIP capabilities allow multiple devices and users to share the connection, enabling coordination, reporting, and real-time decision-making in the field.

Product Features

Portable, Grab-and-Go Design
Lightweight and compact with an embedded battery, enabling rapid deployment from backpack to broadband.

High-Speed L-Band Broadband
Delivers up to 1024 kbps IP connectivity powered by the Thuraya-4 satellite network.

Military-Grade Ruggedisation
IP68 and MIL-STD compliant for reliable operation in extreme environmental conditions.

Integrated Communications Hub
Supports voice (VoIP / VoLTE / Push-to-Talk), IP data, and local Wi-Fi in a single device.

Multi-Device Connectivity
Shares connectivity via built-in Wi-Fi and Ethernet with integrated routing capabilities.

Flexible Power Options
Operates on internal battery, DC power, PoE, or AC supply for extended field missions.

cygnus

**Resilient L-band connectivity
Anywhere!**

Product Specifications

Dimensions	225 / 225 / 61.5 mm (H/W/D)
Weight (incl. battery)	2.2 kg
Data Capabilities > 5° elevation:	Up to 1024 kbps (Rx / Tx)
Voice	Standard VoIP Embedded SIP Server PPT Push-To-Talk
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
Approval	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	Temperature shock, solar radiation, rain, humidity, salt, fog, sand and dust, immersion, drop, freeze/thaw.
EMI/EMC:	MIL-STD-461H
Power	
DC input range	12 - 24 VDC (max. 10.8 - 33.6 VDC)
PoE input	PoE (802.3bt Type 3 Class 6 via RJ45)
PoE output	PoE (802.3at Type 1 Class 2 via RJ45)
Power Consumption	
Standby / Transmit	4.5W / 22W (typical)
During charging	75W (max.)
AC/DC power supply	
Input	100-240 VAC, 47-63Hz, 64W
Output	19 VDC

Built-in Battery	Lithium ion (rechargeable)
Nom. voltage / capacity	10.8 V / 6.9 Ah
Stand-by time	Up to 38 hours
Receive	Up to 4 hours @ 1024 Kbps
Transmit	Up to 3 hours @ 1024 Kbps
Recharge time	< 3 hours (0-100%)
Charge temperature	0°C to 45°C
Interfaces	
WLAN Access Point	802.11 b/g/n/ac
Ethernet Ports	1 x RJ45 (PoE input for ext. power) 1 x RJ45 (PoE output IP Handset) 1 x RJ45
USB Port	1 x USB-C
User interface	2 x LED (Status and WLAN), Power Button, Reset Button, Web Interface
Other features	
Space42 Connect App	(Available for Android / IOS): Control your IP NEO with your Smartphone
Set-up and Router Functionality	Webserver, NAT Router, Admin control (password protected), DHCP, Network Management, Remote Management, PPPoE

Package

- IP NEO M Terminal with embedded Lithium-Ion Battery
- Quick Start Guide
- Power Cable, 3m open-ended
- Ethernet Cable

Accessories

- 408052A-24/12 :009V DC cable, 3m open-ended
- 403650B-923: vPole Mount
- 408012A-42000: Space42 IP Handset
- 408016A-42000: Space42 Battery Pack
- 408016A-010: Space42 42 Battery Pack Extension
- 408052A-42000: Space42 Mobile Gateway M NEO
- 408020A-941: IP NEO PoE Cable with RJ-45 screw
- 408020A-943 IP NEO PoE Cable with RJ-45 screw connectors, 15m

THURAYA
SPACE42