

IP NEO M

High-Performing, Ultra-Portable MIL-Graded Satellite Terminal

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Product Sheet



New standards for military L-band terminals

IP NEO M is a compact military-graded satellite terminal engineered for Thuraya's L-band satellite network.

The terminal is designed for the Thuraya T4-NGS satellite from Space42 offering significantly higher throughput than today. With speeds at 1024 mbps from a single terminal, the IP NEO M represents a new era for portable L-band satellite terminals for military users by setting new standards for size, performance and reliability.

The durable magnesium casing and a dust and water resistant design makes it the perfect choice when working under rough conditions, but still dependant on a reliable connection.

Groundbreaking performance

The IP NEO M offers the fastest broadband data speeds available for a portable satellite terminal of its size, ensuring reliable connectivity from any location within the Thuraya satellite footprint.

The terminal can operate over the Thuraya T4-NGS satellite, supporting 1 mbps.

Designed for any environment

The terminal is a compact and rugged antenna designed to provide reliable and secure IP data even in the harshest of environments. Its compact size (225 x 225 x 61.5 mm / 2.2 Kg) and lightweight design make it possible to deliver Internet connectivity straight from a backpack in just seconds.

Broadband satellite connectivity made simple

The terminal is easy to setup and to operate. The user interface is intuitive and can be accessed from a PC or smart device.

The antenna features easy satellite pointing, using audio and visual pointing aids can be easily deployed from backpack to broadband in a matter of seconds.

System features

- Type approved for the Thuraya L-Band network
- Lightweight and rugged IP68 design ensures durability
- MIL-STD-810 and MIL-STD-461 certified
- Simple to set up and 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
- Embedded Lithium-Ion battery
- Robust MIL-STD connectors with metal screw threads
- Optional pole mount (VESA 50) for fixed installations
- AES-256 Encryption

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Specifications

Dimensions (H/W/D):	225 / 225 / 61.5 mm
Weight (incl. battery):	2.2 kg
Data Capabilities:	
> 5° elevation:	Up to 1024 kbps (Rx / Tx)
Voice:	Standard VoIP, Embedded SIP Server
Satellite frequency range:	
Rx	1518.0 - 1559.0 MHz
Tx	1626.5 - 1660.5 MHz, 1668.0 - 1675.0 MHz
EIRP:	15.1 dBW
Isotropic gain	13 dBi
GNSS:	GPS, Galileo, Beidou, Glonass
Languages:	ENG, AR, FR, POR, ES, RU, JP, CN
Approvals:	CE, RED, RoHS, WEEE, FCC, UL, RCM Thuraya Type Approval

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:	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

For further information please contact:

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Environmental conditions

Temperature	
Operational:	-21°C to +55°C (ambient)
Storage:	-21°C to +50°C
Water and dust:	IP68 Compliant (submersible)
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

Other features

Thuraya 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

Mobile Gateway:

Ruggedized satellite router with advanced PTT and VoIP capabilities

Package

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

Accessories

- 408052A-009: 12/24V DC cable, 3m open-ended
- 403650B-923: Pole Mount
- 408012A-42000: IP NEO Handset
- 408016A-42000: Space42 Battery Pack
- 408016A-010: Space42 Battery Pack Extension Cable, 4m
- 408052A-42000: Mobile Gateway NEO M
- 408020A-941: IP NEO PoE Cable with RJ-45 screw connectors, 4m
- 408020A-943: IP NEO PoE Cable with RJ-45 screw connectors, 15m

