

SECURE MOBILE COMMUNICATIONS  
ON THE MOVE



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**THURAYA**  
DEFENSECOMMS 



PACK THE POWER OF THURAYA IP

Tested by the Royal Signals Squadron division of the British Ministry of Defence and the Aerial Defence and Operations Command of the French Ministry of Defence, against existing solutions, Thuraya IP proved to be a firm favourite for the military sector. And now, with a range of tailored pricing packages specifically designed with the government end-consumer in mind, staying connected has never been more affordable.

Thuraya IP is the most reliable, secure and rapidly-deployable satellite broadband solution on the market. Designed to offer instant, assured broadband connectivity to government consumers, Thuraya IP brings access to the armed forces in challenging communications environments underserved by terrestrial systems and enables assured connectivity to government networks (sipernet, nipernet, RLi SLi). The world's smallest IP terminal delivering data speeds of up to 444 kbps for Standard IP and 384 kbps for Streaming IP, Thuraya IP is fast, easy-to-use, safe and dependable.



Connecting to the network with Thuraya IP is easy. Power up the device, pair any laptop by WiFi or Ethernet cable, direct the terminal at the satellite and enjoy high-speed connectivity from anywhere within 140 countries across Europe, Africa, the Middle East, Asia and Australia without having to worry about poor quality from other systems or the availability of terrestrial networks. No additional software is required – quite simply, it's plug-and-play, allowing you to connect in seconds.

Thuraya IP and its applications allow secure connectivity and interoperability with a wide range of communication platforms, enabling network access, email and file transfer from anywhere, and you can protect your secure communications using standard government-approved IP encryption devices.





Compact and light enough to pack in a standard issue rucksack; Thuraya IP fits easily into kit bags, allowing easy transport, fast deployment and travel flexibility.

Thuraya IP's ability to connect whilst on the move (Comms-on-the-Move) makes it an ideal option for humanitarian relief operations as well as for military deployments in contentious environments. Thuraya IP's vehicular antenna is the smallest in the market and allows consumers, due to its design that is based on a two-axis system, to access high-speed data even while moving at speeds of about 100 mph. Moreover, Thuraya IP is the only terminal on the market that can connect to a number of different antennas, giving you the freedom to decide on your application without having to buy multiple terminals.



Thuraya's leading edge netted communications (NettedComms) solution integrates different communications technologies into a single closed user group. This service allows the interconnection of individuals using different communication networks, such as Thuraya IP, Thuraya handheld phones, public switch telephone networks, GSM systems, and radio systems, in order to provide military officers a powerful netted communications solution during emergencies.

The versatility of Thuraya IP does not stop there; it is the only satellite broadband solution with Asymmetric Streaming capabilities. This unique feature translates into immediate cost savings, allowing a flexible and custom selection of upload and download speeds, thereby reducing cost; meaning you only pay for the bandwidth you use. For consumers, this translates into a 40% cost-saving when compared with competitors. With a range of pricing packages available including unlimited data packages with a fixed monthly fee and zero monthly, there's a pricing plan to suit every budget. And with Thuraya's recently introduced Shareplan which offers organisations the flexibility to share their airtime allowance across various Thuraya voice and data services and choose from monthly, quarterly and yearly subscriptions, our consumers are able to access high-quality and high-speed data services at even more affordable prices.

When assured access to broadband connectivity is a requirement for your operations, Thuraya IP is the most reliable communications solution you can choose.





## THURAYA IP'S BENEFITS FOR THE GOVERNMENT SECTOR

- Reliable network providing quality communications – the Thuraya network dynamically allocates bandwidth where needed, ensuring uninterrupted and congestion-free communications
- World's smallest modem to support a guaranteed 384 kbps Streaming IP and 444 kbps Standard IP
- Flexible asymmetric uplink/downlink bandwidth speeds; cost-effective - pay only for the bandwidth you use
- Thuraya's Shareplan offers scalable packages starting at 20 SIM cards and offers the flexibility to share airtime allocation between Thuraya voice and data services
- Ultra-portable A5 size - 1.3 kgs with battery. Easily slips in to a backpack.
- Support for different external antennas to suit the operational requirements – mounts on any vehicle or vessel
- Supports military grade encryption and VAS solutions
- Developed and tested to exceed operational requirements
- Simultaneous voice and data applications
- 24/7 connectivity with our fixed fee unlimited usage data packages



THURAYA IP, THE MOST POWERFUL SATELLITE  
BROADBAND TERMINAL



## CONVENIENT SIZE

Small yet powerful, Thuraya IP is the most portable mobile broadband solution in the market. A5 in size, it's smaller than a notebook and weighs a mere 1.3 kgs. Sized to slip into a rucksack, Thuraya IP can be easily stored, transported, and being a plug-and-play system that requires no additional software, it's ready for connection in an instant, anywhere under the coverage of the Thuraya network.

## INDUSTRY LEADING DATA RATES

Engineered to provide broadband data communication at high speeds, Thuraya IP transforms the way you work. The world's first mobile satellite service to support a guaranteed rate of 384 kbps Streaming IP, with connectivity of up to 444 kbps available on Standard IP, Thuraya IP delivers instant access to the internet and quicker browsing refresh rates than those of competitors.

Thuraya IP's Performance Enhancing Proxy (PEP) reduces the download time for a typical website by as much as 80%. PEP for Thuraya IP accelerates HTTP, FTP, POP3 and VPNs, delivering quick, reliable connectivity when it matters most.

## FLEXIBLE PRICING PLANS

Thuraya IP is available with a range of flexible pricing packages tailored specifically to suit a variety of military uses. From unlimited data plans, to on-demand consumption as well as zero monthly fee plans, and Thuraya's Shareplan, our pricing packages offer real control, flexibility, and value for money, allowing you to concentrate on mission-critical activities without having to worry about cost and keeping within budgets.

## PRIORITY ALLOCATION OF CAPACITY

The strength and capacity of our network also allows us to offer completely secure and reliable solutions tailor-made for the military. Even when other users in the same area are connected at the same time, Thuraya IP won't let you down. Robust and powerful, Thuraya's network is designed to avoid congestion or call drop-out.

## ASSURED LEASING

Thuraya leasing products guarantee bandwidth in strategically important geographies anywhere within the footprint of both of our satellites. A number of leasing products exist or can be tailored to specific uses. By leasing, you effectively 'book' your bandwidth meaning it is constantly available to you wherever you may be. Thuraya Lease offers constant and assured connectivity with lease channels in multiples of 64 kbps up to a multiple channel linkage of 384 kbps. You can also add any number of Thuraya IP terminals to a single channel lease, and varied bandwidth at any of our standard streaming rates between 16 and 384 kbps depending on the requirements of your deployment. Thuraya Lease incorporates a unique "follow me" capability. This allows end-consumers to access the service anywhere within our satellite footprint, without being restricted to a single spot beam, and without having to pre-reserve capacity in a particular area. This enables military commanders to plan operations pro-actively yet also react instantly when the need arises as there is no need to brief commercial service providers of capacity requirements in advance.

## THURAYA IP AS A DATA HUB

Thuraya IP is a platform where the user can employ a multitude of applications to perform complex data transactions from remote locations. Its WLAN connectivity and compatibility with other communication platforms can turn Thuraya IP into a powerful data hub and allow multiple users to share the device. Thuraya NettedComms gives interoperability to a diverse group of military units, merging multiple communication platforms onto a single closed user group, which is critical in the efforts to avoid blue-on-blue incidents.



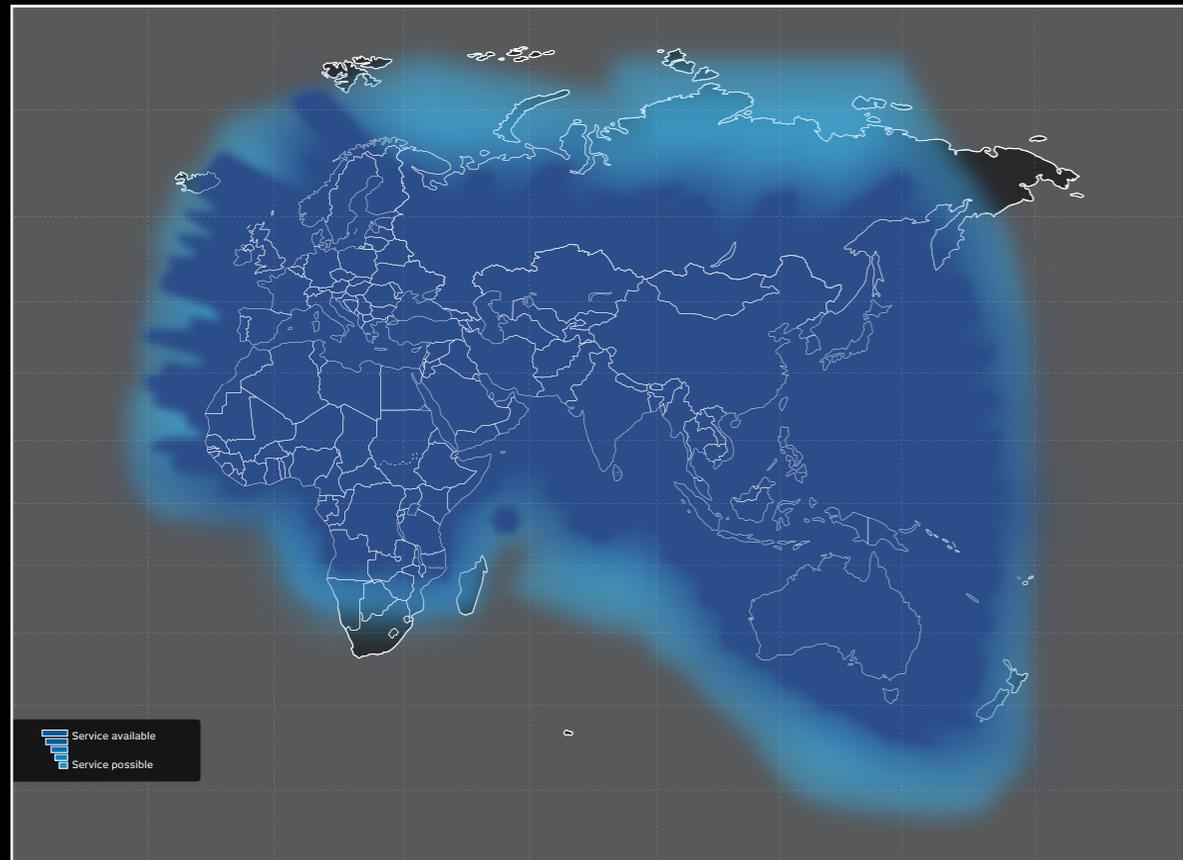
Thuraya IP is a powerful, reliable, secure satellite data platform that brings your deployed military assets closer to you. Thuraya IP broadband services are delivered over Thuraya's state-of-the-art satellite network that covers strategically critical geographies in 140 countries in Asia, Africa, Australia, Europe and Middle East. During 2010 and 2011, there were 33 recognized on-going conflicts around the world, of which 32 occurred under Thuraya's network coverage.

Thuraya's network benefits from dynamic resource allocation which offers a congestion-free service. The network also has low latency which minimises the chance of call drop-out. To support more users in any particular hotspot, Thuraya's network automatically re-allocates network resource to any single spot beam, allowing more Thuraya IP users to enjoy uninterrupted data services. During natural disaster or conflict situations where there is high demand for network resource in a single location, Thuraya is able to deliver sufficient and reliable connection to those users who need interruption-free service.

THURAYA'S POWERFUL NETWORK  
BRINGS CONFLICT ZONES INTO YOUR LINE OF SIGHT



# THURAYA COVERAGE AREA



This map represents Thuraya expectations of coverage. For further information, please contact Thuraya Customer Care at [customer.care@thuraya.com](mailto:customer.care@thuraya.com) or visit [www.thuraya.com](http://www.thuraya.com)

**THURAYA**   
stay close

## FEATURES

- 384 kbps Streaming IP and 444 kbps Standard IP
- Flexible pricing packages
- Network flexibly allocated bandwidth – reduces contention, ensures uninterrupted and congestion-free communications
- Flexible uplink/downlink bandwidth speeds; cost-effective – pay only for the bandwidth you use
- Ultra-portable A5 size – 1.3 kgs with battery – mounts on any vehicle
- Supports military grade encryption and VAS solutions
- Developed and tested to exceed operational requirements
- Simultaneous voice and data applications

*\*256 kbps without an external antenna, 384 kbps with a small external antenna that measures A4 and weighs 1.55kgs, or a flat antenna that weighs less than 1kg.*

# APPLICATIONS & SPECIFICATIONS

PHYSICAL CHARACTERISTICS:	Weight: 1.3 kgs terminal and battery Size: 158mm x 225mm x 50mm
IP DATA SERVICES:	
STANDARD IP	Up to 444 kbps over a shared channel
STREAMING IP	Without external antenna: 16, 32, 64, 128, 256* kbps With external antenna: 16, 32, 64, 128, 256, 384 kbps
TOLERANCES:	
OPERATING TEMPERATURE	Running from external supply: -25° to +55° C Running from battery: 0° to +50° C
STORAGE TEMPERATURE	Including battery: -20° to +60° C Excluding battery: -40° to +80° C
OPERATING HUMIDITY	95% RH at 40°
MECHANICAL VIBRATION	200-2000 Hz, 0.3 m2/s3
UNPACKED DROP	0.5m on concrete surface
WATER & DUST PROOFING	IP55 standard
POWER:	
EXTERNAL POWER	Main power supply adapter: 100-240 V AC at 50-60 Hz
INPUT VOLTAGE	12 V DC



BATTERY:	
BATTERY LIFE	Up to 36 hours standby time 1 hour of continuous transmission at the highest rate
BATTERY TYPE	Lithium-Ion
CHARGING TEMPERATURE	0° to +40° C
INTERFACES:	
CONNECTORS	Ethernet (RJ-45), USB
USER INTERFACE	Web-based graphical user interface accessible via standard web browser
EXTERNAL ANTENNA	GPS, active and passive antenna
WLAN CONNECTIVITY	IEEE 802.11b standard with: - WEP encryption - SSID broadcasting control - MAC address filtering



*\*For best performance, Thuraya recommends the use of an external antenna.*

