

ViasatTM

LTAC



VIASAT L-TAC

Viasat's award winning L-TAC service offers satellite based Beyond Line Of Sight (BLOS) communications on the move for UHF and VHF users.

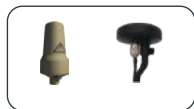
Designed with mobility in mind, The L-TAC service enables existing in-service tactical radios to transparently access BLOS communications without the need to modify the radio hardware.

BENEFITS

- Beyond Line Of Sight (BLOS) upgrade to existing tactical radio voice and data network services
- End user encryption maintained
- Affordable UHF TACSAT alternative
- Interoperability: Military and Commercial VHF/UHF
- COTM solutions for Manpack, Vehicular, Maritime & Aero Units
- Extremely easy to learn / limited training (approximately 2 hours)
- Remote support through our 24x7 Network Operations Centre

FEATURES

- Designed to support in-service radios and compliment existing military capacity
- Radio agnostic and transparent - interoperates between UHF & VHF military and commercial frequencies
- Omni-directional antennas. No need to stop and point.
- Utilises I4 and I6 Narrow Beams, with Customised Beams available
- Very small form factor, lightweight and low power consumption
- Data enabled (HPW and Viasat)
- Flexible leases (Minimum 1 week)



MANPACK



VEHICULAR



MARITIME



AERO



OPS ROOM





MILITARY CUSTOMER CHALLENGE

Military users need to exercise command and control of widely dispersed forces in austere environments without the delay of deploying terrestrial infrastructure or the operational burden of protecting and sustaining them. UHF TACSAT is rare and difficult to access at short notice. Users need an enhanced service immediately.

REQUIREMENT

Increase the number of TACSAT channels available to users for voice and data communications. Allow netted voice and data for an all-informed network on-the-move, on-the-pause or at-the-halt using existing radios, whilst maintaining national crypto.

SOLUTION

The service is implemented using a single hop through Viasat's satellite system via directly connected L-band uplinks and downlinks, giving users the same experience as UHF and VHF communications through our highly resilient L-band satellite channels. The service supports military and civilian operations for aviation, maritime, vehicle, man pack and fixed Ops room applications.

MILITARY CAPABILITY SCENARIO

SATCOM OVER YOUR RADIO

The Joint Force Commander has decided he needs to expand into the rebel held territory to the west.

The lead reconnaissance foot patrol supplies a steady flow of intelligence as it moves forward, constantly in touch with battle group HQ, well to its rear, without pausing to set up antennas.

The mounted elements of the main assault force maintain communications with patrols and the HQ as they manoeuvre to the north, far beyond the range of UHF combat radio.

The battle group commander speaks securely and reliably on the move to a sector hundreds of kilometres away, and to flanking coalition partners, while logistic elements follow to the rear, ready to establish the new forward base.

Maintaining contact without the need for range-extension stations or the technical challenges of mobile HF radio or lack of UHF terrestrial infrastructure.

Thanks to Viasat's L-TAC service, mobile BLOS communications are available with minimum additional training over your existing radios.

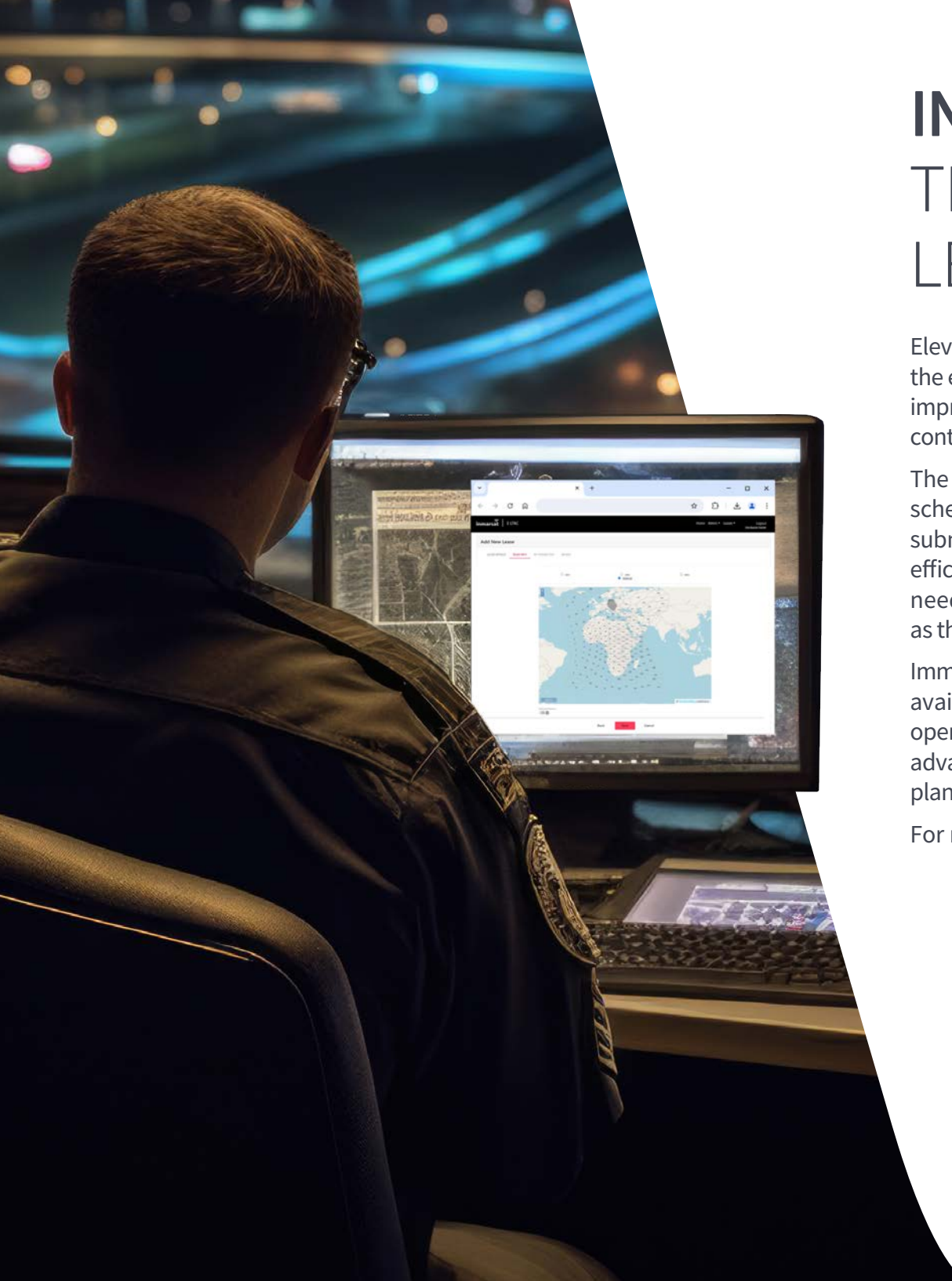


PUBLIC SAFETY SCENARIO

For regular VHF users, L-TAC offers a fast-to-deploy and cost-effective capability for extending terrestrial coverage, either in remote terrains where there is no local VHF repeater or where natural or criminal action has destroyed the repeater. The provision of an L-TAC capability provides remote teams with a means of communication without the expense of a massive rollout of radio repeaters in an extended area.

In a public safety scenario, the existence of both UHF and VHF L-TAC variants will enable normally disparate teams such as military, police and civil agencies to work more closely together. Despite the fact that they may all be using different radio types and frequency bands, by taking out an L-TAC lease, they can interconnect with each other without the current need for a retransmission facility.





INTRODUCING E-LTAC: THE FUTURE OF L-TAC LEASE MANAGEMENT

Elevate your tactical communication strategy using E-LTAC, designed to meet the evolving operational needs of modern military and first responders. E-LTAC improves the management of L-TAC leases, providing unprecedented flexibility, control, and efficiency through an innovative self-service Portal.

The E-LTAC Portal enables Distribution Partners and their customers to schedule and manage their L-TAC leases online, eliminating the need for submitting manual requests. This streamlined process enhances operational efficiency and ensures that communication resources are available when needed. E-LTAC supports today's existing 5-day planned leases timeline, as well as the newly introduced immediate leases type.

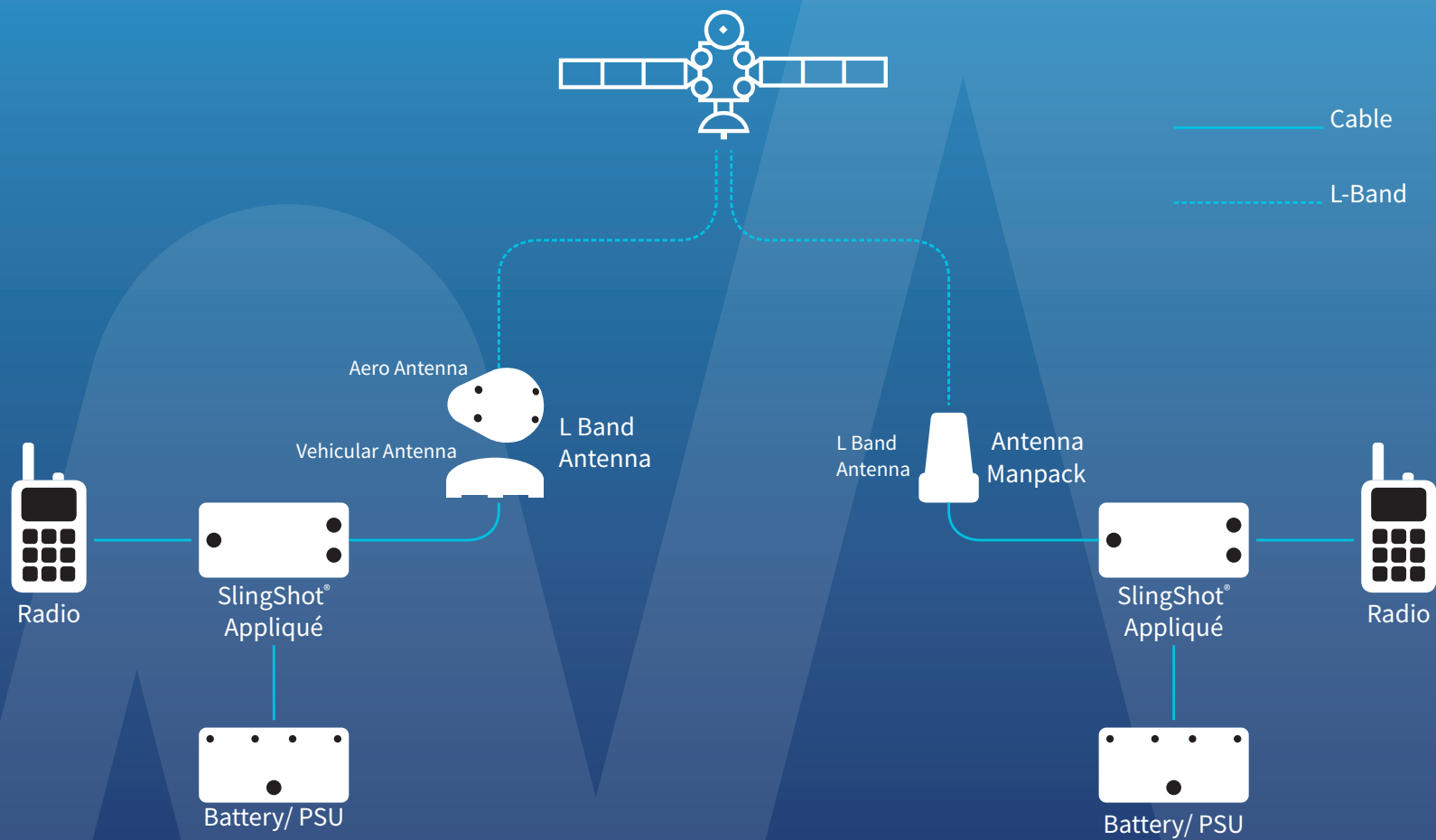
Immediate leases can be activated within minutes where spare capacity is available, providing a new way to request L-TAC leases for urgent unplanned operations. Traditional planned leases can still be scheduled at least 5 days in advance, ensuring availability and optimal resource allocation for upcoming planned operations when needed.

For more information about E-LTAC, contact your Viasat Account Manager.

SPECTRA
Group

SPECTRA SLINGSHOT





SPECTRA SLINGSHOT SPECS

Configure a system to suit your needs.



ANTENNA	L-band Vehicular Antenna	L-band Maritime Antenna	L-band Manpack Antenna	L-band Aviation Antenna	L-band Low Profile Antenna
Short Title	Ae-V	Ae-MT	Ae-M	Ae-A	Ae-LP
Spectra Part Number	SG-SS-2001B	SG-SS-2002	SG-SS-2003	SG-SS-2004	SG-SS-2006
Size (mm)	146 x 58	150 x 142	76 x 153	111 x 143 x 38	205x 153 x 40
Weight (g)	667	705	305	385	600
Approvals	FCC Part 15 Canada 310 DTM: Viasat 1401 CE	FCC Part 15 Canada 310 DTM: Viasat 1401 CE	FCC Part 15 N/A DTM: Viasat 1401 CE	TSO-C 132 DTM: DO-160D RTCA: DO-210D CE	DTM: Mil Std 810G DTM: Mil Std 461F CE
Colour	Khaki, White	White	Khaki	White	Black
Connectors	RF-SMA	RF-SMA	RF-BNC	RF-TNC	RF-TNC
Standard Mounts	Mag-Mount Base	Pole-Mount Bracket	Screw-Mount	ARINC-743 footprint	
Optional Mounts	Antenna Mount Clamp Set	Antenna Mount Clamp Set	Antenna Mount Clamp Set Elevated Pole Set Extendable System	n/a	n/a
Frequency Range	1525 to 1660 MHz	1525 to 1660 MHz	1525 to 1660 MHz	1525 to 1660 MHz	1518 to 1675 MHz



APPLIQUE	UHF Military Band Manpack	UHF Military Band Vehicular / Maritime	VHF Military Band Manpack	VHF Military Band Vehicular / Maritime	VHF Commercial Band Manpack	VHF Commercial Band Vehicular / Maritime
Short Title	UHF-M-M	UHF-M-VMT	VHF-M-M	VHF-M-VMT	VHF-C-M	VHF-C-VMT
Spectra Part Number	SG-SS-1002	SG-SS-1001	SG-SS-1004	SG-SS-1003	SG-SS-1006	SG-SS-1005
Input Frequency Band	240 - 311 MHz	240 - 311 MHz	58 - 88 MHz	58 - 88 MHz	144 - 174 MHz	144 - 174 MHz
Size (mm)	170 x 75 x 30	170 x 87 x 30	204 x 75 x 30	204 x 87 x 30	170 x 75 x 30	170 x 87 x 30
Weight (g)	507	489	605	550	507	489
Colour	Matt Black	Matt Black	NATO Green	NATO Green	Matt Grey	Matt Grey
RF Power Input Required	3 - 10 Watts	3 - 10 Watts	3 - 10 Watts	3 - 10 Watts	3 - 10 Watts	3 - 10 Watts
Ingress Protection	IP67					
Approvals	CE, MIL-STD - 810G, MIL-STD - 461F					
Environmental	-26° to +58°C Operating					
Connectors	DC Power: LEMO, RF Input: TNC, RF Output: SMA					

COMMCRETE

COMMCRETE FLIPPER



COMMCRETE FLIPPER HANDHELD HTS-100 SPECS

HTS-100 is designed for Comms-On-The-Move (COTM) for any soldier or first responder using it on their body during a mission. It turns any line of sight VHF/ UHF tactical radio (Military or Commercial including high-band) to a tactical satellite radio. Available with various accessories such as a selection of power options and comes in two colours — orange or khaki.



Specification	Description
Satellite Frequency Range	L-band (1518-1675 MHz)
Input (Radio) Frequency Range	50 - 950 MHz (Military and Commercial VHF / UHF including low- and high-bands)
RF Input from Radio	0.5 - 5W
Weight	Terminal: 130 grams Antenna: 100 grams Pole: 75 grams
Dimensions	Terminal: 90 mm x 60 mm x 15 mm Antenna: Ø65 mm Pole: 24cm
Operating Temperature	-25 °C to +60 °C
Mounting Options	Side Mount Gooseneck
Water and Dust	IP 67
Certification	CE, FCC and EL
Standards	<ul style="list-style-type: none">• EMC/EMI: EN 55032, EN 55035, EN 301489-1, EN 301489-3 and 301489-17• Radio (RF Exposure): EN 62209-1528• Safety: EN 62368-1
Mil-Spec (self-certified)	MIL-STD 461F (EMC) MIL-STD 810G (Environmental - CE102, RE102, CS114, RS103, 501.5, 502.5, 507.5, 514.6, 516.6)
Power Source	DC Adapter battery adapter. Pass-through or straight option. (battery not included)
Input Voltage	6-14V (2.5A@6V)
Data Connectivity	USB (for Configuration)
Other features	Radio Port: SMA Antenna Port: TNC Fisher Tactical Push-Pull connector for Power

COMMCRETE FLIPPER

MOBILE KITS

(VTS-300, MTS-400, ATS-500)

VTS-300 is designed for COTM for any vehicle on mission using tactical radios for communication. Rugged design for platform, including a mountable Flipper and antenna. Compensation of RF loss is considered so the distance between the Flipper and the antenna is not limited (up to 14m of RG-58 coaxial cable or 55m of LMR-400 coaxial cable).

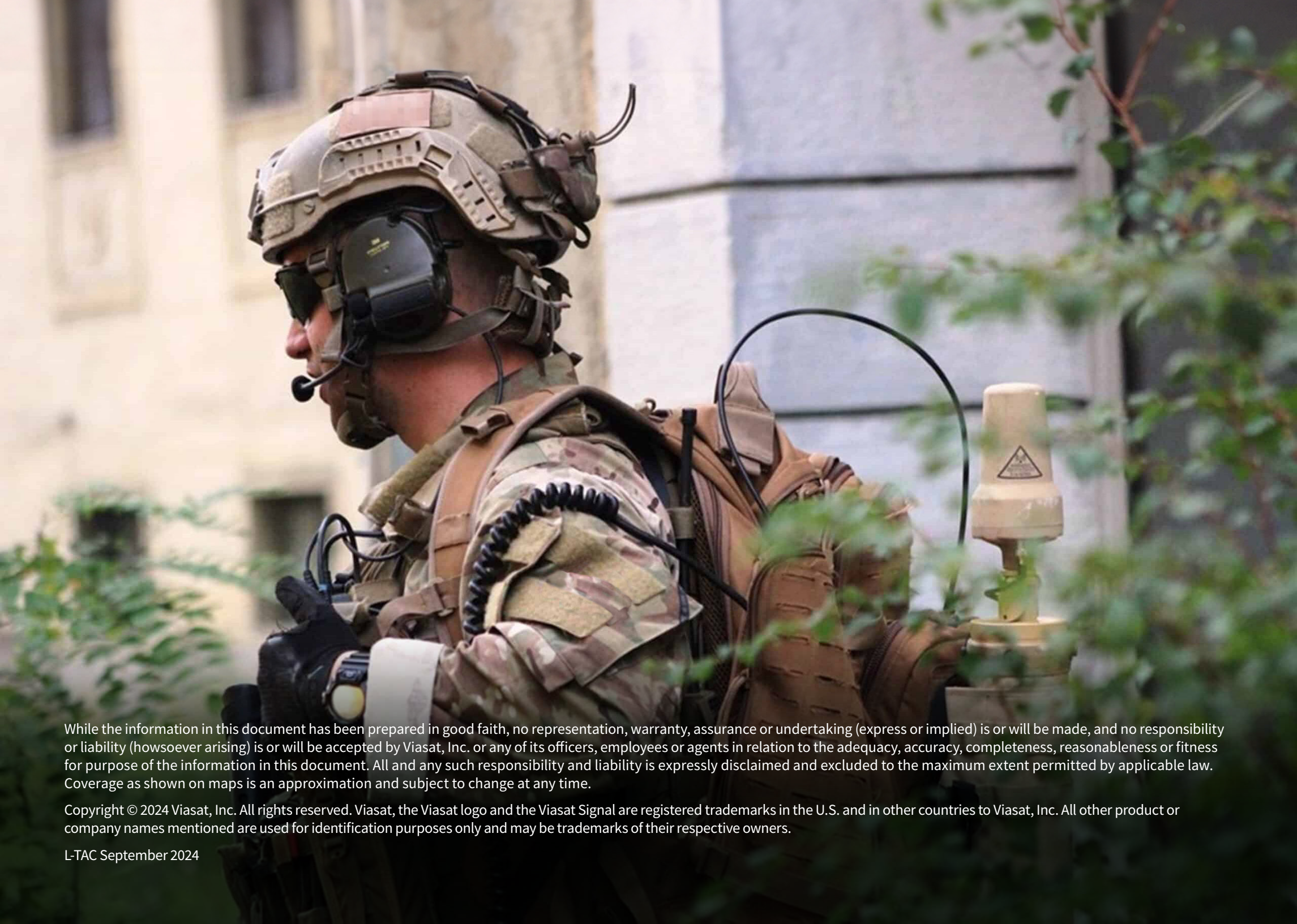
VTS-301 is designed for headquarters with a directional antenna allowing for longer distances between the user desk and the antenna. Available with an assortment of cables lengths.

MTS-400 is a similar version of the VTS-300 customised for maritime conditions (IP67) and available in navy blue colour.

ATS-500 is an evolved versions of the VTS-300 customized for Aeronautical severe conditions such as below freezing temperatures (outdoor passive antenna with a supportive under deck amplifier). Available with bottom or side mount options and black colour.



Specification	Description
Satellite Frequency Range	L-band (1518-1675 MHz)
Input (Radio) Frequency Range	50 - 950 MHz (Military and Commercial VHF / UHF including low- and high-bands)
RF Input from Radio	0.5 - 5W (Protection up to 60W)
Weight	Terminal: 700 grams Antenna: 260 grams
Dimensions	Terminal: 150 mm x 145 mm x 40 mm Antenna: Ø100 mm
Operating Temperature	-25 °C to +70 °C
Mounting Options	Screw / Magnet ATS-500 Aero: RF Connector option: bottom / side
Water and Dust	IP 67
Certification	CE, EL (FCC in progress)
Standards	<ul style="list-style-type: none">• EMC/EMI: EN 55032, EN 55035, EN 301489-1, EN 301489-3 and 301489-17• Radio (RF Exposure): EN 62209-1528• Safety: EN 62368-1
Mil-Spec (self-certified)	MIL-STD 461F (EMC) MIL-STD 810G (Environmental - CE102, RE102, CS114, RS103, 501.5, 502.5, 507.5, 514.6, 516.6)
Power Source	AC/DC Power Supply (optional) / Car Lighter / DC Pigtail
Input Voltage	9-36V
Data Connectivity	USB (for Configuration)
Other features	Radio Port: TNC Antenna Port: N-Type Amphenol connector for Power



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L-TAC September 2024