

GE  
Satcom

# Satellite Solutions for Defence



imagination at work

GE – Satcom is a global provider of satellite communications services with over 10,000 VSAT sites in over 130 countries, delivering customised solutions directly to large enterprises and Government institutions, including defence forces in need of secure, robust and easy to deploy satellite connectivity. GE – Satcom also offers highly specialised Military Satellite Solutions proven to be very reliable in the most challenging environmental conditions, with a guaranteed network availability exceeding 99.7%.

## Space Segment

With access to almost any satellite world-wide, military forces have an extensive choice of commercial satellite bandwidth readily available for any critical mission. GE - Satcom can offer Ku-, C-Band over land, sea or air.

## Technology Platforms

### SCPC

GE – Satcom delivers point-to-point or point to multi-point dedicated links which are inherently secure and robust, ranging from 64 Kb/s up to 40 Mb/s.

### MESH

GE - Satcom designs, builds and operates MESH networks (direct connection from VSAT to VSAT), ideal for multipoint connectivity and communications for voice and data in remote territories at speeds of 2 Mb/s.

### TDMA

GE - Satcom provides optimum bandwidth utilisation for point-to-multipoint network requirements, supporting transmissions of up to 2 Mb/s outbound and 2 Mb/s inbound

## Mobile Military Solutions

GE – Satcom has developed a range of mobile military solutions in conjunction with partners and military customers. These flexible and easy to deploy solutions include tactical mobile and transportable satellite systems on a variety of vehicles, such as: field communications shelters, trucks, trailers, army staff stations and sea-going vessels.

With a choice of vehicle or trailer on which the mobile VSAT is mounted, the options for transportability are endless. Flexibility of field deployment provides immediate and effective command and control between operational units and headquarters during manoeuvres.



## Private Hub Station

GE - Satcom understands the importance of customer managed networks where classified information is constantly handled and can support the autonomous operation of customer networks in the field. GE - Satcom can provide a redundancy through back-up hubs, networks and operations either within a standalone network environment or integrated within a wider global network.

## Satellite Terminal Specifications

- Dish sizes: 4.6 m, 2.4 m, 1.8 m, 1.2 m
- Transmitting in Ku-, or C-Band
- Narrowband or broadband from 64 Kb/s to 40 Mb/s
- Choice of manually pointed or self-pointing antennas
- IDU and ODU equipment
- Reinforced cases, easy and safe to transport overland or air manually Power generator UPS unit

## Teleport and Hub Hosting Services

GE - Satcom's military and government customers can optionally choose between self-management and GE - Satcom's two state-of-the-art operations centres located in Backnang, Germany and Leuk, Switzerland, which not only serve as multiregional gateways, but can also offer:

- 24-Hour network monitoring, 365 days per year
- High speed terrestrial connectivity to London and New York with European and US Internet backbone access
- Co-location services with the benefit of utilising uplink and downlink facilities over existing antennas or the option of a custom built antenna
- Housing client's networking, satellite hub and antenna equipment
- Centralised, round-the-clock and multilingual Network Operation Centres
- Equipped with fully redundant systems and 24 x 7 operations
- In-house engineering teams carrying out equipment testing, acceptance and in-service activations
- Multiple telephone exchange connections, email and voicemail backups



GE - Satcom has two teleports, one at its HQ and operational centre in Backnang, Germany, the other in Leuk, Switzerland. It has a full time commercial presence in the Benelux, France, Poland, Switzerland and the UK.

GE - Satcom experts are available to answer your requests and to take your project from idea to operational reality.

**For further information**

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