

# SATELLITE COMMUNICATION SYSTEMS

## LAND PLATFORM SOLUTIONS

Command control functions like fire support, maneuver control, information/electronic warfare, air defense and logistic support, which require different communication services and equipments to be used together, need to be executed simultaneously. This is possible only with secure data transport with high data rate in the tactical field.

With its ability of beyond line-of-sight communication and endurance to various geographical conditions, Satellite Communication Systems are indispensable communication tools in military units by satisfying operational requirements such as:

- Forming near real time tactical picture of the battle field,
- Providing near real time data communication between weapon, sensor and command centers,
- Providing automatic and consistent monitoring of military units' geographic locations from a center,
- Conferring these information to the use of commander level,

when there is no communication system left or the capabilities of the communication systems are restricted especially during the cross border operations.

Satellite Communication Systems Land Platform Solutions cover the tactics requirements of commandships at the battle fields and the headquarters and the command centers to which the military units are connected at the battle field and provide secure voice, video and data transfer with high data rate, each of which is a part of command control systems, in all types of geographic conditions and tactic operations. They can work with satellites under the use of Turkish Armed Forces as well as satellites belonging to friendly nations and NATO which provide service in relevant frequency bands.





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### Manpack Satellite Communication Terminal:

- Lightweight, suitable for one man transportation
- Fast and easy deployment
- X Band or Ku Band Solutions
- PAMA and DAMA capabilities
- Antenna Size: 70-90 cm
- Power Output: up to 20 W
- Configurable aggregate voice/data rate according to user requirements
- System Management: Central and Local Management Software
- Frequency & Bandwidth Management: Dynamic and Central Allocation of frequency and bandwidth
- Security: Compatible with National and NATO crypto devices
- Environmental Conditions: MIL-STD-810G tested
- EMI/EMC: MIL-STD-461F tested
- Mobile communication via satellite
- Communication with other ground terminals via Network Control Center
- IP Based, Secure/Non-secure voice, data, video teleconferencing and fax communications

### Flyaway Satellite Communication Terminal:

- Compact design with transportable cases
- X Band or Ku Band Solutions
- PAMA and DAMA capabilities
- Antenna Size: 1.2-1.8 m
- Power Output: up to 200 W
- Configurable aggregate voice/data rate according to user requirements
- System Management: Central and Local Management Software
- Frequency & Bandwidth Management: Dynamic and Central Allocation of frequency and bandwidth
- Security: Compatible with National and NATO crypto devices
- Environmental Conditions: MIL-STD-810G tested
- EMI/EMC: MIL-STD-461F tested
- Mobile communication via satellite
- Communication with other ground terminals via Network Control Center
- IP Based, Secure/Non-secure voice, data, video teleconferencing and fax communications

### Satcom on the Move Vehicular Satellite Communication Terminal:

- Communication in all terrain and weather conditions via satellite
- 2-Axis Stabilized Automatic Tracking
- X Band or Ku Band Solutions
- PAMA and DAMA capabilities
- Antenna Size: 60 cm
- Power Output: up to 60 W
- Configurable aggregate voice/data rate according to user requirements
- System Management: Central and Local Management Software
- Frequency & Bandwidth Management: Dynamic and Central Allocation of frequency and bandwidth
- Security: Compatible with National and NATO crypto devices
- Environmental Conditions: MIL-STD-810G tested
- EMI/EMC: MIL-STD-461F tested
- Mobile communication on the move via satellite
- Communication with other ground terminals via Network Control Center
- IP Based, Secure/Non-secure voice, data, video teleconferencing and fax communications

### Satcom on the Pause Vehicular Satellite Communication Terminal:

- Communication in all terrain and weather conditions via satellite
- Easy set-up and support high mobility by means of automatic antenna mounted on a tactical vehicle
- X Band or Ku Band Solutions
- PAMA and DAMA capabilities
- Antenna Size: 1.2-1.5 m
- Power Output: up to 200 W
- Configurable aggregate voice/data rate according to user requirements
- System Management: Central and Local Management Software
- Frequency & Bandwidth Management: Dynamic and Central Allocation of frequency and bandwidth
- Security: Compatible with National and NATO crypto devices
- Environmental Conditions: MIL-STD-810G tested
- EMI/EMC: MIL-STD-461F tested
- Mobile communication via satellite
- Communication with other ground terminals via Network Control Center
- IP Based, Secure/Non-secure voice, data, video teleconferencing and fax communications