ACROSAT X38-S

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SUBMARINE SATELLITE
COMMUNICATION TERMINAL

#MilitaryCommunication

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With its ability of beyond line-of-sight communication and endurance to various geographical conditions, Satellite Communication Systems are indispensable communication tools by satisfying campaign/ logistic requirements below, when there is no communication system left or the capabilities of the communication systems are restricted:

- Forming tactical picture
- Reliable communication environment with high data rate between tactical units and operation/command centers
- Communication infrastructure providing integration of elements in the tactical field with strategical networks
- Communication ability of tactical units with civilian communication environments

Submarine Satellite Communication Systems provide secure voice, video and data transfer with high data rate, each of which is a part of C4ISR systems, for fulfilling the operational requirements of commanders in the tactical field and operation/command centers to which surface ships are connected, in all types of sea conditions.

The beacon receiver developed by ASELSAN utilizes high performance satellite tracking. Integrated usage of beacon signal, inertial navigation system (INS) and gyro data provide superior and reliable satellite tracking and stabilization.

The X38-S terminal, developed indigenously by ASELSAN features a stabilized antenna system with 38 cm reflector and is housed by a radome designed for underwater operation offering high pressure resistance and low RF losses.

Features

- Integrated LNB, GPS and Gyro module
- Adjustable non-transmission area option
- Compact design and improved RF performance
- Configurable for different ship platforms according to the user requirements
- MIL-STD-810, MIL-STD-461 tested
- > 50 bar under-water pressure tested (with antenna system and related PHP cables)

Functional Features

- 2-Axis Stabilization and Tracking
- QoS Management: Prioritization for services such as voice, data and video teleconferencing etc., configurable data rate according to the user requirements
- Compatible system architecture with National and NATO crypto devices
- Configurable Interfaces according to the user requirements
  - IP Based, Secure/Non-secure voice, data, video teleconferencing and fax communication
  - Serial based data communication (RS232, RS449, Link communication etc.)

RF Features

	X-Band Family
	38 cm
Tx Gain	> 28 dBi
G/T	> 1.5 dB/K
Rx Frequency	7,25 - 7,75 GHz
Tx Frequency	7,90 - 8,40 GHz

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