



X60-OM, Ku45-OM

SATCOM ON THE MOVE VEHICULAR
SATELLITE COMMUNICATION
TERMINAL

#MilitaryCommunication



aselsan

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SATCOM ON THE MOVE VEHICULAR SATELLITE COMMUNICATION TERMINAL

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 and high definition photo/ video transfer
- Providing data communication between platform and command centers

Satcom on the Move Vehicular Satellite Communication Systems provide secure voice, video and data transfer with high data rate on the move, in all types of operations and environmental conditions. Different system configurations with reflector size and output power are available whereas customized solutions can be provided according to user requirements.

Besides, the Satellite Modem developed by ASELSAN enables secure communication with its encryption capability and utilizes high performance satellite tracking with beacon receiver. Integrated usage of beacon signal, inertial navigation system (INS) and gyro data provide superior and reliable satellite tracking and stabilization.

Precision stabilized satellite antennas, designed with 45cm and 60cm reflectors for various platforms and enclosed in a low-insertion loss radome, are indigenously developed by ASELSAN.

Light-weight, robust and compact design of the antenna systems makes it suitable for narrow spaces. It has high RF performance with its unique design. More powerful power amplifiers can be used according to the required EIRP value.

They can work with satellites which provide service in relevant frequency bands.

Features

- Lightweight and compact design
- Complying with both MIL-STD-810 and MIL-STD-461, configurable for different vehicular platforms according to the user requirements
- National and customized waveform design
- Efficient spectrum usage
 - Adaptive coding and modulation
 - Dynamic channel management
 - IP throughput optimization

Functional Features

- Stabilization and Tracking in azimuth and elevation axes
- High tracking performance with beacon signal and INS data
- Satellite reacquisition time
- End to end total system latency
- QoS Management: Prioritization for services such as voice, data and video conferencing etc., configurable voice/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

	Ku-Bant Family	X-Bant
	AcroSAT Ku45-OM	AcroSAT X60-OM
Tx Gain	>35.5 dB	>30,80 dB
G/T	>11.5 dB/K	>7 dB/K
Rx Frequency	10.95-12.75 GHz	7.25 – 7.75 GHz
Tx Frequency	13.75-14.5 GHz	7.9 – 8.4 GHz

Ku45-OM

X60-OM

