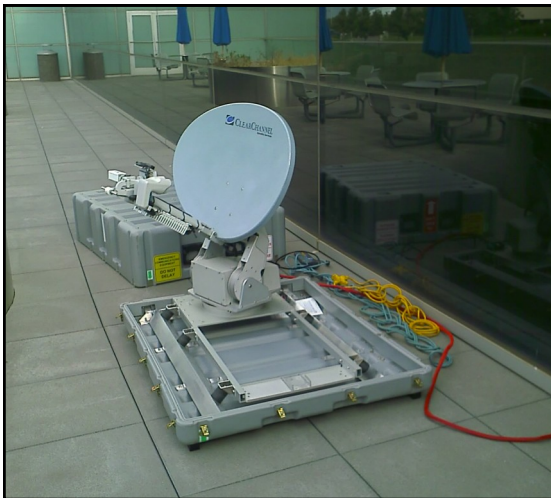




## XSM-7504

The XtremeSat terminal systems are DVB-RCS compliant. They are designed to achieve high performance and quick response time for enterprise and governmental applications.

The XtremeSat offers powerful connectivity directly to the LAN/WAN environment or directly to a host computer. A truly corporate solution, it is an out-of-the-box, ready-to-go, cost-effective broadband solution.



The .75 Meter auto acquiring antenna has a built in GPS. With the push of one button the antenna will lock on the satellite in less than 5 minutes, automatically.

- Auto acquiring antenna with built in GPS system
- Easy to configure Ethernet connectivity to your PC, LAN or Router.
- On board TCP and HTTP acceleration
- Application QoS
- VoIP support
- VPN support
- Bandwidth Speeds of 512 upstream / 1536 downstream.
- Rugged Hardigg case for the antenna.
- Rugged equipment case on wheels that houses the SIT, controller and customers owned equipment.

76 Inverness Drive East  
Suite B  
Englewood, CO 80112

Phone: 303.925.1708  
Fax: 303.925-1714  
E-mail: [sales@clearchannelsatellite.com](mailto:sales@clearchannelsatellite.com)

Satellite Services Powered By:



## **Antenna**

Optics	Offset, Prime Focus
Mount Geometry	Elevation over Azimuth
Controller	TracStar One-button Auto acquisition

## **Electrical RF**

Frequency	11.70—12.75 Ghz
Gain (Midband)	37.8 dBi
First Sidelobe Level (Typical)	- 18 dB

## **Receive**

Frequency	11.70—12.75 Ghz
Gain (Midband)	37.8 dBi
First Sidelobe Level (Typical)	- 18 dB

## **Transmit**

Frequency	13.75—14.5 Ghz
Gain (Midband)	39.3 dBi
First Sidelobe Level (Typical)	- 21 dB

## **Controller**

Type	Fully automatic satellite acquisition, peaking and cross-pol adjustment using GPS, Compass, and level sensor inputs
Auto positioning accuracy	$\leq \pm 0.1$ degree
Input Power	110/240 VAC, 1 ph, 50/60 Hz, 5 amps peak, 1 amp continuous

## **Mechanical**

BUC Mounting	Feed Boom up to 4 watts
Coax	Tx and Rx L-band with Type F at Base of antenna
Stowed Dimensions	49L x 36.25W x 10.75H inches (125L x 92W x 27H cm)
Hardigg Case Dimensions	52L x 42W x 18H inches (132L x 107W x 46H cm)
Weight (with Hardigg Case)	140 lbs (63.5 kg)
Weight (w/o Hardigg Case)	90 lbs. (36 kg)

## **Environmental**

Wind	
Survival Deployed	80 mph (129 kmph)
Survival Stowed	140 mph (225 kmph)
Operational	45 mph (72 kmph), Gusts to 60 mph (97 kmph)
Temperature	
Operational	$\pm 5^\circ$ to 125° F (-15° to 52 °C)
Survival	-40° to 140° F (-40° to 60 °C)

## **Satellite Interactive Terminal (SIT)**

Network Architectures	Star
Sample Services	DVB-RCS, TCP/IP, UDP/TCP, Unicast, Multicast, Broadcast Protocols, FTP, HTTP, SNMP, ICMP, IGMP, DHCP, RIP, NAT, RTP, C2P, VLAN (802.1q)
Air Interface	Downstream (hub to remote): DVB-S (QPSK) Encapsulation: IP over MPEG Upstream (remote to hub): DVB-RCS (QPSK) Encapsulation (DVB-RCS) IP over ATM, IP over MPEG
Upstream Burst Rates	64kbps—4 Mbps in 16kbps increments
Network Interface	Ethernet 10/100 BaseT, RJ45 connector
GPS Interface	Global Positioning System input port
Network Management	SNMP—based and GUI—based management, dual software loads, downloadable software upgrade over the air
Supply Voltage	100-240 VAC; 50Hz / 60Hz
Certifications	CE, FCC, CSA

## **Block Up Converter**

RF Frequency	14.00 to 14.50 GHz
Local Oscillator	13.05 GHz
IF Frequency	950 to 1450 MHz
Output Power	4W Linear
Power Supply	+15 VDC~+24 VDC via IF Cable
Output Interface	WR-75 Grooved
Linear Gain	60 dB nominal
Input Interface	75 Ohm (F-type IF In)
Temperature Range	
Operating	-40° to 55 °C
Storage	-40° to 75 °C
Weight	3.7 lbs