

## Exede Enterprise Professional Terminals

### Fixed or Semi-Fixed High-Speed Satellite Internet Terminals

The 75 cm and 1.2 m Professional Terminals deliver high-speed Internet access for users of the ViaSat Exede Enterprise services. The terminals are ideal for extended duration deployment; however, their compact design gives them the flexibility to be used at temporary work sites. These systems are based on ViaSat's successful Ka-band technology and leverages ViaSat-1, the world's highest capacity satellite, already the product of choice for Ka-band direct-to-home Internet service, broadcasters, first responders and the DOD. With more than a million terminals shipped, the ViaSat Ka-band network has a record of proven reliability, scalability and performance.



#### HIGH-PERFORMANCE, COST-EFFECTIVE INTERNET ACCESS

The ViaSat Exede Enterprise Professional Terminals are designed for users of Exede Enterprise services who require high throughput connectivity at fixed locations. Whether at a location for only a few months or several years, businesses, oil and gas workers, remote medical and peace workers, and emergency responders can now easily benefit from high-speed Internet even in locations where no other communications infrastructure is available.

The 75 cm and 1.2 m terminals enable fast web browsing and support video streaming, file transfers, VPN connections, and bandwidth-intensive Internet applications on the Exede Enterprise service which has downstream rates up to 15 Mbps and upstream rates up to 5 Mbps. The terminals are capable of delivering higher speeds based on the service package specific to customers' needs. These terminals allow the flexibility to be used with fixed site or roaming service plans. The modem delivers a faster, more responsive user experience, with an embedded acceleration client that works with acceleration servers in the network. With a customer supplied router, the terminal can support multiple user IP devices, such as PCs, cameras, WiFi access points, VoIP phones as well as other user equipment.

The option of multiple antenna sizes allows users the ability to select the terminal that best meets their needs. The 75 cm system is a more compact package and ideal when space is a concern or a limited duration deployment. The 1.2 m terminal is for users desiring the improved availability of a larger reflector.

#### EXEDE TERMINALS AT-A-GLANCE

- » 75 cm or 1.2 m antenna depending on user needs
- » Non-penetrating mount for easy setup
- » Single IFL cable from the modem to the RF allowing for reduced installation time
- » High-speed two-way performance on the Exede Network with up to 15 Mbit/s downstream and 5 Mbit/s upstream
- » Built-in TCP and web acceleration
- » High quality 1 RU metal chassis designed for rack mounting or desktop use
- » High power 4 W P1 dB output power amplifier
- » Setup in less than 1 hour

#### Applications

- » High-speed Internet access
- » Remote office connectivity—extending the corporate network
- » Temporary communications for energy, government, broadcast and disaster recovery
- » Business continuity

## MODEM SPECIFICATIONS

### FORWARD CHANNEL (SATELLITE TO TERMINAL)

Modulation/Coding	
» 16-APSK Rate	2/3, 3/4, 4/5, 5/6, 8/9
» 8PSK Rate	3/5, 2/3, 3/4, 5/6
» QPSK Rate	1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
» Adaptive Coding & Modulation	
Symbol Rate	Up to 50 MSym/s

### RETURN CHANNEL (TERMINAL TO SATELLITE)

Modulation/Coding	
» 8PSK Rate	7/12, 2/3, 3/4
» QPSK Rate	3/8, 1/2, 5/8, 3/4
» BPSK Rate	1/2
» Automatic power control and rate adaptation	
Symbol Rate	625, 1250, 2500, 5000, 10000 and 20000 kSym/s
RF Spectrum FCC	47CFR25.138, 47CFR25.202, ETSI EN 301 459

## USER SPEEDS

Forward Channel	Operator configurable up to 50 Mbits/s
Return Channel	Operator configurable up to 20 Mbits/s

## QUALITY OF SERVICE (QOS)

Dynamic Service Flows

## MANAGEMENT

Remote TCP/IP, local GUI monitoring and control

## IP INTERNETWORKING

Per Flow Queuing

Layer 3 Mode

» Transparent TCP and HTTP acceleration

## POWER SUPPLY

Power	100 to 240 VAC; 50 to 60 Hz
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## INDOOR ENVIRONMENT

Operational Temperature	0° to +40° C
Storage Temperature	-35° to +65° C
Humidity	0 to 95% (non-condensing)
Altitude	3000 m
Shock and Vibration	Per ISTA, Procedure 3A, 2008

## REGULATORY

Safety	cULus, CE, CB Scheme
EMC	FCC 47 CFR Part 15 Subpart B, CE
RoHS	Compliant to RoHS Directive 2002/95/EC
REACH	Compliant to REACH Directive

## PHYSICAL

Status Indicators	Power; Satellite Acquisition; Activity; Fault
Size (WxHxD)	4.3 x 22 x 21 cm
Weight (including Power Supply)	2.2 kg

## INTERFACES

CPE	IEEE 802.3, 10/100/1000 BaseT, RJ-45 connector
Expansion	USB 2.0, Type A connector

## RF AND ANTENNA SPECIFICATIONS

### CHARACTERISTICS

Description	4 W Ka-band System
RX Frequency	18.3 to 20.2 GHz
TX Frequency	28.1 to 30.0 GHz
Polarization	
» Standard	Circular, Cross-polarized, with remote switching option

### OUTDOOR ENVIRONMENT

Power	Supplied by IDU on IFL coax, 30 to 55 VDC
Ambient Temperature	-40° to +55° C (up to +80° C survival)
Humidity	0 to 100% (condensing)
Rain	<100 mm/h
Wind	50 mph

### REGULATORY

Safety	cULus, CE, CB Scheme
EMC	FCC 47 CFR 15B, 25.138, 25.202, ETSI 301 459, CE
RoHS	Compliant to RoHS Directive 2002/95/EC
REACH	Compliant to REACH Directive

### INTER-FACILITY LINK (IFL) CABLE

Type	RG-6, 75 Ohm
Connector	F (male)
Length (max)	60 m

### 75 CM ANTENNA

Nominal EIRP	48.4 dBW
Nominal G/T	17.5 dB/K
Reflector Size	77 x 72 cm
Weight	33.5 lb; 15.2 kg
Mounting	Non-penetrating and wall mount included

### 1.2 M ANTENNA

Nominal EIRP	54 dBW
Nominal G/T	23 dB/K
Reflector Size	120 x 120 cm
Weight	54.7 lb; 24.9 kg
Mounting	Non-penetrating mount included

## ORDERING INFORMATION

TERMINAL	PART NUMBER
75 cm Enterprise Terminal	1150234
1.2 m Enterprise Terminal	1162325



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### SALES

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