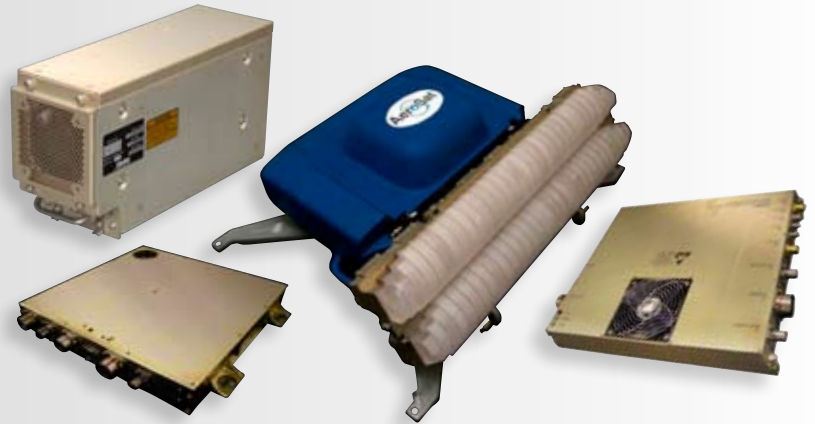


## OFFICE-IN-THE-SKY SHIPSET FOR FOR VIP AIRCRAFT



### Broadband Access From The Moment You Step Onboard

Equip your large-cabin aircraft with the VMT-1560 mobile broadband system and enjoy all the benefits of our Yonder<sup>SM</sup> Mobile Broadband Service and YonderTV<sup>SM</sup> Entertainment Service anywhere in our global ArLight<sup>®</sup> communications network. With its high-performance fuselage-mount AeroSat HR-6400 antenna subsystem, the VMT-1560 system provides the lightest, lowest profile Ku-band broadband terminal available for VIP aircraft. Based on our leading-edge proprietary ArLight technology, this on-board system supports channel speeds of up to 30 Mbit/s from the hub gateway to your aircraft and up to 1024 kbit/s from your aircraft to the hub.

No other system has the capacity to offer the level of services we provide. ViaSat's patented Paired Carrier Multiple Access (PCMA) technology delivers efficient use of the satellite bandwidth. And our proprietary Code Reuse Multiple Access (CRMA) technology ensures the low profile VMT-1560 terminal operates within FCC and ITU regulatory guidelines for adjacent satellite interference.

### Yonder Mobile Broadband and YonderTV Entertainment Services

Yonder Mobile Broadband Service provides affordable, two-way broadband data and voice communications on par with typical cable modem and DSL technology found in your office or home. And you can access it all seamlessly on your laptop computer, wireless smart phone or PDA.

- Place and receive cell phone calls just as you would on the ground\*
- Browse the web, or send and receive email in real time.
- Access your company's network through a secure VPN
- Conduct video conferences

You get uninterrupted service along the routes you fly most often – even over water. In fact, no other Ku-Band mobile broadband service provider gives you more coverage than ViaSat.

When the work's all done, you can tune in to ViaSat's YonderTV, an exclusive airborne entertainment service. Catch up with real-time broadcast channels from your home cable or satellite TV service. Or directly access your home entertainment system to view content from your home video library. Whatever you can watch in your home, you can watch in your home-away-from-home in the sky.

\*For mobile phones utilizing GAN or UMA technology

### VMT-1560 AT-A-GLANCE

- Affordable, always-on two-way broadband IP access
- Unsurpassed global network coverage, in partnership with KVH
- Supports Internet browsing, email transfers, Voice-Over-IP (VoIP) telephony, VPN access, YonderTV, our exclusive from-home entertainment service & more
- Lightest, smallest-footprint Ku-band broadband satcom terminal
- 30 Mbit/s to the aircraft and 1024 kbit/s from the aircraft
- Plug-and-play connectivity to any public or private IP network
- Mounts permanently on fuselage of aircraft, with variable distance from antenna to modem to accommodate various aircraft
- The system operates on both +28 VDC and 115 VAC (400 Hz)
- DO-160E certified
- Optional encryption, router/switch for Ethernet and phone line connections, and TCP/HTTP accelerator
- 24/7 hub network availability and monitoring

## SPECIFICATIONS

### OPERATING FREQUENCIES

Transmit	14.0–14.5 GHz
Receive	11.7–12.75 GHz

### MODULATION and FEC

Forward Link Rx	Spread (O)/QPSK/BPSK
Return Link Tx	Spread GMSK
Spread Factors	$4 \leq k \leq 150$ (Ret Tx); $1 \leq k \leq 23$ (FW Rx)
FEC	$R=1/3$ Turbo
Min. Req. Eb/No	1.2 dB (FW Rx); 2.25 (Ret Tx)
Multiple Access	TDM (FW Rx); CRMA (Ret Tx)
Freq. Reuse	Paired Carrier Multiple Access (PCMA)

### TRANSMISSION RATES

Return Link Tx	32, 64, 128, 256, 512, 1024 kbit/s burst rates
Forward Link Rx	500 kbit/s to 30 Mbit/s

### RF/TRACKING PERFORMANCE

EIRP	42.5 dBW minimum
G/T	11.2 dB/K minimum
Polarization	Selectable horizontal/vertical linear polarization
Coverage	360° azimuth; ; +90° to -10° elevation
Tracking	7°/sec min; 7°/sec <sup>2</sup> min

### BASEBAND INTERFACES

Data	10/100BaseT Ethernet
Nav	ARINC™ 429 input required
Voice	RJ-11 (option)

### OPTIONAL FEATURES

Acceleration	TCP/HTTP Performance Enhancing Proxy
Telephony	VoIP or POTS phone connections
Router	Cisco Systems router/switch
Video Compression	MPEG-4 Part 10 (H.264) real-time streaming compression

### POWER

Input	+28 VDC and 115 VAC 400 Hz <275 W (w/o options)
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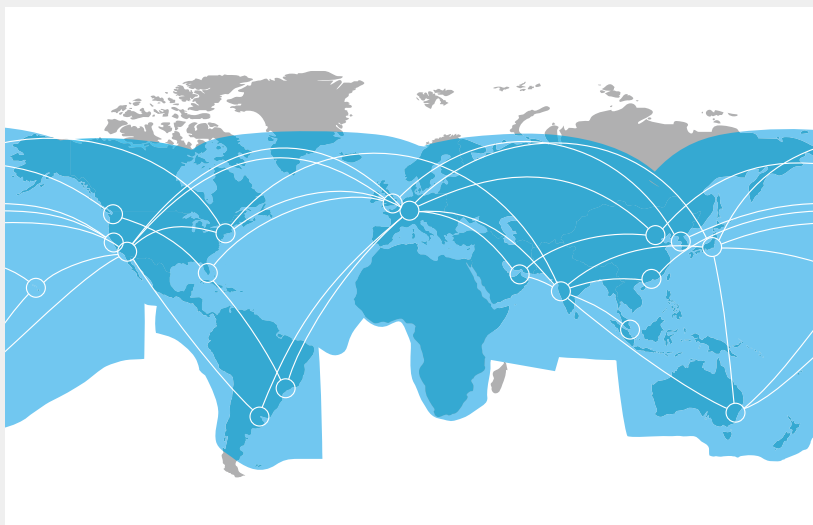
### ENVIRONMENTAL and PHYSICAL

Operation Temperature	-55° to +70° C (topside equipment); -20° to +60° C (in-aircraft equipment)
Aircraft Ops	Idling, taxiing, and in full flight
Weight, Total System	87 lbs

## Coverage Map

No other Ku-band mobile broadband service provider delivers more coverage than the ViaSat Arclight Network. You get uninterrupted service along the domestic and international routes you fly most often – even over water. And now our partnership with KVH Industries ensures your coverage will extend to nearly every corner of the globe by late 2009.

Yonder Mobile Broadband and YonderTV services are available anywhere you fly within the coverage of our Arclight network.



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