



High performance broadband router VSAT

Benefits

- High performance - 20Mbps downstream and 4Mbps upstream per site
- High availability and efficiency with DVB-S2 ACM and ICM adaptive inbound
- Excellent user experience - DSL latency for real time video conferencing and Web 2.0 applications
- QoS support for high quality VoIP/Video/ Internet traffic, enabling prioritization and fairness
- Standards-based VSAT: DVB-S2 and DVB-RCS with enhanced functionality



IP Router VSAT

Gilat's Triple Play (3P) MEO VSAT is a compact, two way VSAT enabling broadband IP access and multicasting to one or many locations. This VSAT is ideal for extremely fast throughput for rapid access to the Web, VoIP, enterprise connectivity and multimedia applications. The versatility of 3P MEO VSAT provides multiple advantages enabling the provision of flexible, tailored services for supporting diverse markets and applications. The standards-based 3P MEO VSAT supports both DVB-S2 and DVB-RCS and is matched to a unique self-pointing antenna in order to track the O3b Networks satellite constellation.

Enhanced Capabilities

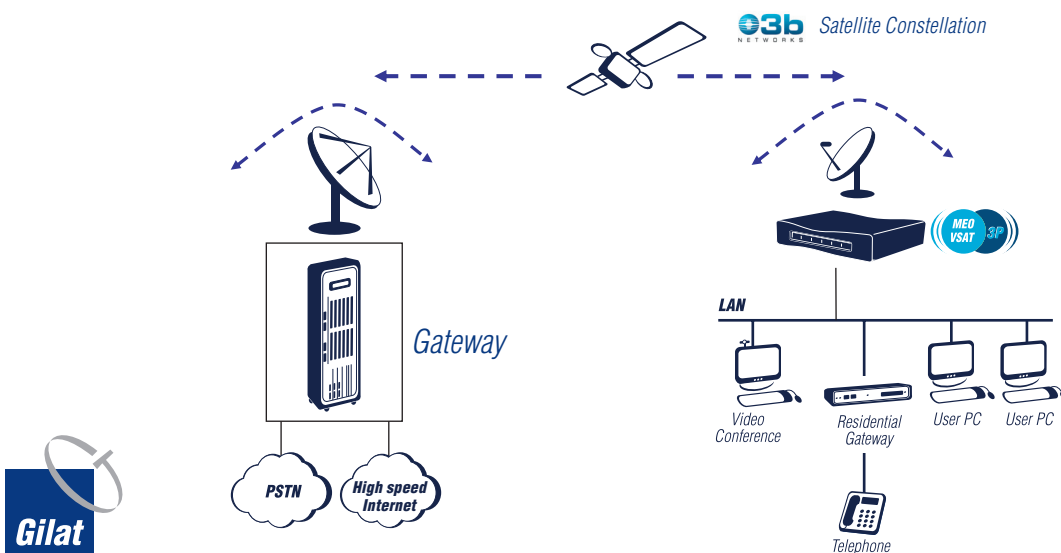
The 3P MEO VSAT provides superior bandwidth efficiency and high availability through the use of DVB-S2 ACM (Adaptive Modulation and Coding) for the outbound paths. Supporting QPSK/8PSK/16APSK/32APSK Modulation and LDPC coding provides superior bandwidth efficiency. Supporting ACM ensures that this bandwidth efficiency can be used dynamically for each VSAT as per local link conditions.

The inbound performance of 3P MEO VSAT can provide over 4Mb/ sec per VSAT, on adaptive and dynamic channels. High bandwidth efficiency is supported with QPSK/8PSK modulation and DVB-RCS based turbo coding. ICM provides 3 dimensions of inbound adaptively: adaptive uplink power control, coding and modulation and adaptive channels. These combine with the unique advantages of O3b Networks' satellite constellation, such as MEO orbit and high power transmission, to ensure excellent availability.

Above and beyond compliance to the standards, the 3P MEO VSAT provides a variety of special operational and performance enhancements. Embedded IP, HTTP and VPN acceleration, routing capabilities, end-to-end QoS, encryption, tiered services and SLA support are only part of the extensive IP capabilities ensuring an extensive flexibility and support in the most complex IP environment. As software is embedded into the VSATs, there is no need for external boxes or installation of software on the customer's PC. For operational efficiency and ease of support, the 3P MEO VSAT is equipped with an advanced Web user interface. In addition, automatic over-the-air software updates minimize the need for maintenance visits.

Technical Specifications

Outbound Carrier	
Standard	DVB-S2
Carrier rate	45 - 60 Msps
Modulation	QPSK, 8PSK, 16APSK, 32ASPK
Coding	Viterbi & Reed Solomon (DVB-S) or LDPC & BCH (DVB-S2)
FEC rate	1/4, 1/3, 2/5, 1/2, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Inbound Carrier	
Channel Rates	128Ksps-2.56Msps
Access Scheme	MF-TDMA DVB-RCS Based
Bit rate	Up to 4Mbps (Supporting different bit rates for different work groups)
Modulation	QPSK, 8PSK
Coding (RCS Based)	Turbo coding FEC 1/2; 2/3; 3/4; 4/5; 6/7
Outdoor Unit	
Operating Temperature	-40° to +60° C
Humidity	Up to 100%
Transmitter ODU	1W and 2W Ka-Band
LNB	Standard TVRO type
Indoor Unit	
RF Input/Output	Two F connectors, 75 Ω female
Data Interface	1 x Ethernet 10/100BaseT
Operating Voltage	100-240V AC or 10-59V DC
Power consumption	Less than 20W
Security	AES-128 encryption
IP Features	
Enhanced IP features	RIP, IRDP, DHCP, NAT/PAT, IGMP, IP prioritization, ACL, VLAN, DiffServ, IPSec
Other Features	Bandwidth on Demand, TCP & HTTP acceleration, Multi-Level QoS
Mechanical / Environmental Conditions	
Size (WxHxD)	156x56x165 mm
Weight	0.93 Kg
Operating Temperature	-5° to +50° C (optional -40° to +60° C)
Storage Temperature	-40° to +70° C
Relative Humidity	Up to 90%



Corporate HQ (972) 3 925 2000 • Australia (61) 3 9866 6877 • Brazil (55) 21 2142 6600 • China (86) 10 6510 2838 • Colombia (57) 1600 3434 (114) • India (91) 11 2922 5478/6 • Indonesia (62) 21 526 7670 • Kazakhstan (7) 327 259 6575 • Mexico (52) 55 110 016 00 • North America (1) 703 848 1000 Russia (7) 495 981 0965 • South Africa (27) 12 344 0240 • Thailand (66) 2 634 1780 www.gilat.com

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