



SkyEdge[®] II Accent

SCPC/TDMA Dual Waveform VSAT

High Performance Multi-Mode VSAT

SkyEdge II Accent supports bi-directional high throughput for both MF-TDMA and SCPC (continuous) transmission modes - with fast switchover available. It is ideal for cellular backhauling, ISP PoP locations, video contribution, and other bandwidth intensive applications. Like the other SkyEdge II VSATs, it is managed via the SkyEdge II Network Management System (NMS).

Maximum Efficiency and Availability

SkyEdge II Accent provides superior space segment bandwidth efficiency and enables high link availability through the use of DVB-S2 ACM (Adaptive Coding and Modulation) both in the outbound and inbound paths.

For non-bursty traffic, the continuous carrier in the inbound direction has the advantage of 50% less space segment than TDMA Access. In addition, SkyEdge II Accent enables operators to share a large outbound carrier among all TDMA and SCPC VSATs increasing the statistical bandwidth multiplexing for best bandwidth efficiency.

Manual or Automatic Switchover

SkyEdge II Accent can be manually switched to SCPC through an easy to use scheduler, or automatically switched from TDMA to SCPC mode upon detection of a predefined condition over the LAN interface. Such conditions include: detection of a certain IP address (or range of addresses); detection of a certain protocol (UDP, for example); detection of failure of the terrestrial backbone, providing "business continuity".

Feature Rich Terminal

SkyEdge II Accent comes with all the embedded IP routing, QoS, TCP and HTTP acceleration technologies that are available on the SkyEdge II platform. In addition, the Accent includes a micro SD memory slot for optional multi-GByte add-on required to support Gilat's CacheMode! technology. With CachMode! enabled, the Accent is able to store web content on its on-board cache memory enabling an even faster web browsing experience.



Available also with all connectors at the back
(AC power input)

Benefits

- High performance - 24Mbps / 24Mbps
- Unified central management for mixed TDMA and SCPC network
- On-Demand scheduled inbound switchover between SCPC carrier and TDMA
- Automatic switchover upon detection of a predefined trigger.
- Bi-directional advanced adaptive transmissions for maximum availability
- Best for video, cellular backhaul, and high throughput applications
- Standards-based VSAT: DVB-S2 and DVB-RCS with enhanced functionality

Technical Specifications

Outbound Carrier	
Standard	DVB-S2 Adaptive Coding and Modulation (ACM)
Carrier Rate	256Ksps - 45Msps (in 1Ksps steps)
Modulation	QPSK, 8PSK, 16APSK, 32APSK
Coding	LDPC & BCH (DVB-S2)
FEC Rate (DVB-S2)	1/4, 1/3, 2/5, 1/2, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Inbound Carrier	
Access Scheme	MF-TDMA DVB-RCS based and Continuous Carrier (SCPC); Manual or automatic switchover
Channel Rates	DVB-RCS: 128Ksps - 2.56Msps; SCPC: 300Ksps - 10Msps
Carrier Data Rate	Up to 4.4 Mbps with DVB-RCS; Up to 24 Mbps with SCPC
Modulation	DVB-RCS: QPSK, 8PSK; SCPC: QPSK, 8PSK, 16APSK
Coding (DVB-RCS)	Turbo coding FEC 1/2; 2/3; 3/4; 4/5; 6/7
Coding (SCPC)	LDPC and BCH (DVB-S2) coding FEC 1/4, 1/3, 2/5, 1/2, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Outdoor Unit	
Antenna Size (typical)	Ka-Band and Ku-Band: 0.55 m to 1.2 m; C-Band: 1.8 m
Operating Temperature	-40° to +60° C
Humidity	Up to 100%
Linear BUC Power	2W-40W. Power to the BUC: 24 VDC or 48 VDC, up to 150W of power
LNB	Standard TVRO type or PLL
Indoor Unit	
RF Input/Output	Two F connectors, 75 Ohm, female
Data Interface	Two LAN 10/100BaseT
Operating Voltage	100-240VAC; 24V DC (19V-36V); 48V DC (36V-72V)
Security	AES-256 encryption
IP Features	
Enhanced IP Features	RIP, DHCP, NAT/PAT, IGMP, ACL, DiffServ, Multi VRF, VLAN, IPv6 Ready
Other Features	TCP and HTTP acceleration, Multi-Level QoS, Internal Cache
IDU Mechanical/Environmental Conditions	
Size (WxDxH)	480x340x45 mm (without rack mount addition)
Weight	2.2 Kg
Operating Temperature	0° to +50° C
Storage Temperature	-40° to +70° C
Relative Humidity	Up to 90%

To learn more about SageNet's SkyEdge II Accent, visit our website, www.sagenet.com, or call 1-866-480-2263.

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