



# SkyEdge II Extend

## 2-Port Broadband Router VSAT

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SkyEdge II Extend is a compact, two-port VSAT enabling broadband IP access and multicasting to one or many business locations. This VSAT is ideal for extremely fast throughput for rapid access to the Web, VoIP, enterprise connectivity and multimedia applications. The two-port versatility of the SkyEdge II Extend provides multiple advantages, enabling the provision of flexible, tailored services for supporting diverse markets and applications. The standards-based SkyEdge II Extend supports both DVB-S2 and DVB-RCS and is a product of Gilat's extensive knowledge of and field-proven experience in data and VoIP Telephony.

### Enhanced Capabilities

The SkyEdge II Extend 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 SkyEdge II Extend can provide 2.6 Mbps 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 to ensure high availability even in rain fade conditions with a maximum dynamic range of up to 23dB. Dual-Synthesizer technology further improves the inbound efficiency.

Above and beyond compliance to the standards, SkyEdge II Extend provides a variety of special operational and performance enhancements. Embedded IP, TCP/HTTP/VPN acceleration, routing capabilities, encryption, VLAN, VRF, end-to-end QoS, tiered services and SLA support are only part of the extensive IP capabilities ensuring compliance in the most complex IP environments. 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 SkyEdge II Extend is equipped with an advanced Web user interface. In addition, automatic over-the-air software updates minimize the need for maintenance visits to remote locations.



### Benefits

- High performance service rates up to 20 /2.6 Mbps
- High availability and efficiency - utilizing DVB-S2 ACM and ICM adaptive inbound
- Feature-rich functionality - optimizing performance of multiple layers with TCP and HTTP acceleration, QoS, VoIP and compression
- Added flexibility with two LAN ports



## Technical Specifications

<i>Outbound Carrier</i>	
<b>Standard</b>	DVB-S2 Adaptive Coding and Modulation (ACM)
<b>Carrier Rate</b>	256Kbps - 45Mbps (in 1Kbps steps)
<b>Carrier Data Rate</b>	Up to 135 Mbps
<b>VSAT data Throughput</b>	Up to: 20 Mbps UDP, 7.5 Mbps TCP
<b>Modulation</b>	QPSK, 8PSK, 16APSK, 32APSK
<b>Coding</b>	LDPC and BCH (DVB-S2)
<b>FEC rate (DVB-S2)</b>	1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
<i>Inbound Carrier</i>	
<b>Access Scheme</b>	MF-TDMA DVB-RCS
<b>Channel Rates</b>	128Kbps-1.536Mbps
<b>VSAT Data Throughput</b>	Up to 2.6 Mbps UDP/TCP
<b>Modulation</b>	QPSK, 8PSK
<b>Coding</b>	Turbo coding FEC 1/2; 2/3; 3/4; 4/5; 6/7
<b>Coding (RCS Based)</b>	Turbo coding FEC 1/2; 2/3; 3/4; 4/5; 6/7
<i>Indoor Unit</i>	
<b>RF Input/Output</b>	Two F connectors, 75 Ω female
<b>Data Interface</b>	2 x Ethernet 10/100BaseT, RJ-45, Serial console: RJ-45
<b>Power Supply Options</b>	Autorange 100-240V AC or Autorange 10-59V DC
<b>Power Consumption</b>	8.5W (IDU only)
<i>Enhanced Features</i>	
<b>Enhanced IP features</b>	Multi VRF and VLAN, IPv6 ready, RIP, VRRP, DHCP, NAT/PAT, IGMP, IP prioritization, ACL, DiffServ
<b>Other Features</b>	Bandwidth on Demand, TCP and HTTP acceleration, Multi-Level QoS and MPN
<b>Security</b>	AES 256 Encryption
<i>Indoor Unit Mechanical / Environmental Conditions</i>	
<b>Size (WxDxH)</b>	240x55x235 mm
<b>Weight</b>	0.93 Kg
<b>Operating Temperature</b>	0° to +50° C
<b>Storage Temperature</b>	-40° to +70° C
<b>Relative Humidity</b>	Up to 90%
<i>Outdoor Unit</i>	
<b>Antenna</b>	Ka, Ku, Ext Ku, C
<b>Operating Temperature</b>	-40° to +60° C
<b>Humidity</b>	Up to 100%
<b>Linear BUC interface</b>	Internal 24V up to 4W BUC; External DC for 6W BUC and higher; Ka, Ku, Ext Ku, C
<b>LNB</b>	Standard TVRO type or PLL

SEE-EXT-EN0-8-001



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