



SkyEdge™ IP

Meeting the Broadband IP demands of your business

The SkyEdge™ IP VSAT offers a two-way satellite-based solution enabling interactive Broadband IP and multicasting applications to one or all of your business locations. With DVB standards and extensive IP capabilities, the platform is ideal for businesses of any size requiring extremely fast downstream and upstream throughput for multimedia applications, large file delivery and extremely rapid access to the Web.

Cost Effective Multimedia Delivery

The SkyEdge IP incorporates Spacenet's Skystar 360E product experience with embedded new technologies, including acceleration, VPN, QoS, high inbound bit rates, improved access scheme and modulations resulting in maximum efficiency and performance from your satellite network.

An "always on" connection provides instant access to the Internet and corporate Intranet with outbound bit rates of up to 66 Mbps. As a stand-alone unit, the SkyEdge IP includes embedded TCP and HTTP acceleration technologies enabling users to benefit from high-speed connectivity and heightened user experience.

Embedded acceleration software and our "VPN Inside" processor, are all conveniently located in the VSAT and are an integral part of the system, easily managed from the NMS and fully software upgradeable.

Value - Added Capabilities

With fast and easy enterprise-wide deployment, the SkyEdge IP is the perfect answer for a single-platform solution for Internet access and a full range of retail applications. An optional serial port enables business services such as credit authorization, ATM, dial backup via external modem and other services to help achieve significant cost savings and increased efficiencies at the point of sale.

The SkyEdge IP, with high inbound bit rates of up to 2 Mbps, empowers businesses with speed, quality, and superior support for all web-based and bandwidth intensive applications while enabling prioritization and fairness between applications. Embedded encryption is available guaranteeing secure business communications to all sites.

Available virtually anywhere, the SkyEdge IP is designed to grow with your business, and supports an outbound range starting as low as 340Kbps providing flexible and incremental bandwidth allocation, a major advantage for small service providers starting from a minimal initial investment and seamlessly growing to accommodate large networks.

Unmatched Functionality

As software is embedded into the VSATs, there is no need for external boxes or installation of software on the client's PC. All software can be easily managed, fully controlled and updated over the air remotely from the NMS.

For optimal efficiency, the SkyEdge IP is equipped with an advanced user interface with LCD and keypad navigator enabling improved operation and maintenance of remote VSATs providing a variety of value added services using the LCD display.

End-to-end QoS, vital for running a cost effective IP network, is simple with the flexible and dependable bandwidth access features. Managing bandwidth on a per user or per application basis, SkyEdge IP provides tiered services, equal access to bandwidth and even enables minimum-speed guarantees.



Technical Specifications

Outbound Carrier:

- Standard: DVB-S
- Carrier bit rate: 340Kbps - 66Mbps
- Modulation: QPSK or 8PSK (optional)
- Coding: Viterbi & Reed Solomon or Turbo
- FEC rate: 1/2, 2/3, 3/4, 5/6, 7/8

Inbound Carrier:

- Access Scheme: Combined TDMA, FDMA
- Bit rate: 60Kbps – 2Mbps
Supporting different bit rates for different work groups
- Modulation: GMSK
- Coding: Turbo coding FEC ~3/4, ~7/8

Outdoor Unit:

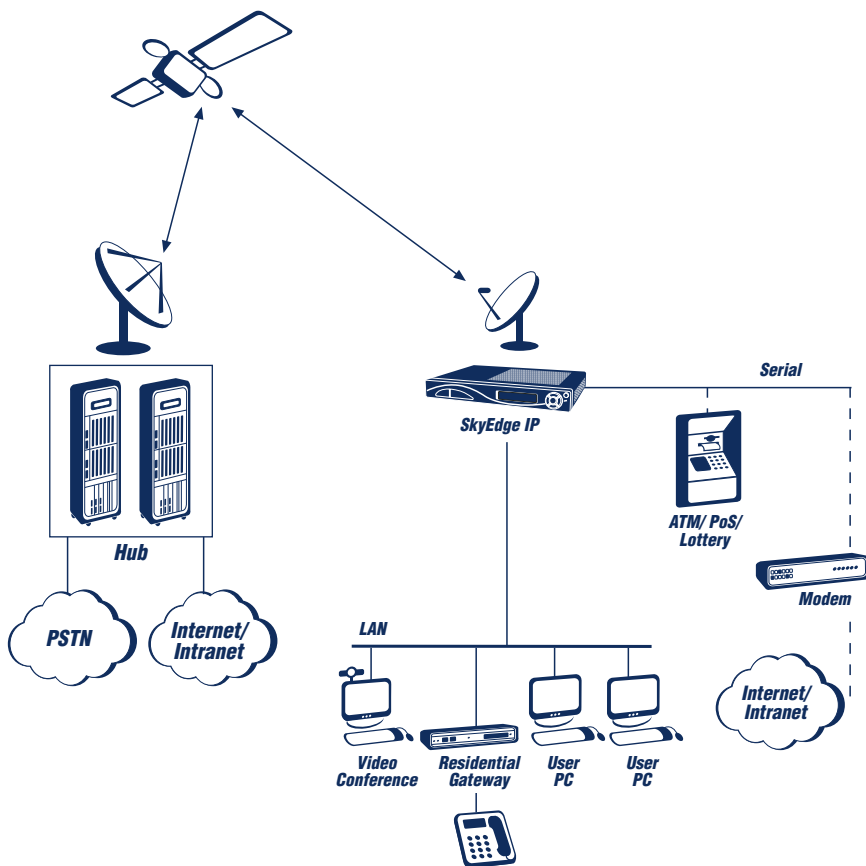
- Antenna size (typical):
Ku-Band: 0.55 m to 1.2 m; C-Band: 1.8 m
- Operating Temperature: -40 to +60 C
- Humidity: Up to 100%
- Transmitter ODU:
0.5W, 1W or 2W Ku-band, 2W C or Ext C band
- LNB: Standard TVRO type

Indoor Unit:

- RF Input/Output: Two F connectors, 75 Ω female
- Data Interface: 100BaseT, Async RS-232 (optional)
- Operating Voltage: AC: Wide range 100-240V
- Size: 213mm x 220mm x 88mm

Environmental Conditions:

- Operating Temperature: -5 to +50 C
- Storage Temperature: -40 to +70 C
- Relative Humidity: Up to 90%



Key Features

- DVB-S outbound
- 8 PSK outbound, turbo coding and encryption support, optional
- Unique support for small networks starting as low as 340Kbps
- Wide range of inbound access schemes for efficient space segment utilization
- High inbound bit rate up to 2Mbps
- Stand-alone unit with embedded acceleration software
- Embedded TCP and HTTP acceleration
- Embedded hardware based VPN
- QoS support for both upstream and downstream traffic
- Supports any standard IP application such as Broadband Internet/Intranet, VoIP, IP multicast, Video conferencing etc.
- Enhanced IP features for full flexibility: RIP, IRDP, DHCP, NAT, IGMP, IP prioritization, ACL
- Enables prioritization and fairness between applications.
- Serial port to support Async protocol (optional)
- Advanced user interface with LCD and keypad navigator

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SkyEdge™ Product Family

SkyEdge™ Pro
Multi-Service VSAT

SkyEdge™ Call
Telephony VSAT

SkyEdge™ IP
IP Router VSAT

SkyEdge™ DVB-RCS
Enhanced Standard VSAT

SkyEdge™ Gateway
Trunking Solutions VSAT