SkyEdge II-c Capricorn-4 is an ultra-high-performance VSAT designed to enable corporate services, 3G/LTE cellular backhauling, IP trunks and mobility services. For IP trunks and mobility, Capricorn-4 delivers acceleration and packet-per-second performances that support hundreds of users per VSAT. For 3G and LTE cellular backhauling, Capricorn-4 includes Gilat’s patent pending cellular data acceleration technology that enables full LTE speeds of up to 150Mbps for cellular handheld devices. To reach these high return speeds, Capricorn-4 supports both TDMA and SCPC transmission.

**FLEXIBILITY x 4**

The four-port Gb Ethernet LAN eliminates the need for an external switch. Each port can be individually managed, including assigning VLANs, monitoring, and configuring Ethernet link parameters.

**COMPLETE FEATURE SET**

Capricorn-4 is a full-featured IP router, with advanced application based QoS, VLANs, and next-generation IPv6 networking.

To ensure fast running of applications, web browsing and a high-quality user experience, Capricorn-4 contains a full set of protocol optimization and application acceleration features, including TCP, HTTP and GTP protocol acceleration, compression and embedded web caching technologies.

Capricorn-4 provides the highest level of transmission security, supporting X.509 terminal authentication and AES-256 bit link layer encryption with dynamic key rotation to protect all user traffic.

**ADVANCED VSAT PLATFORM FOR CORPORATE AND ENTERPRISES**

Based on the latest generation, multi-core ARM technology, Capricorn-4 enables high-speed services up to 200Mbps in the forward direction and 100Mbps in the return direction. The ultra-high speed exhibited by this VSAT platform, combined with built-in TCP and HTTP acceleration technologies, is ideal for vertical markets that demand high bandwidth and high packets-per-second performances such as Cellular Backhaul, ISP PoP Locations, Oil & Gas, Video Contribution and Corporate Networking.
ENHANCED CENTRAL SERVICE MANAGEMENT INTERFACE FOR VNOS

Capricorn-4 VSAT is part of a complete VSAT ground system that includes an advanced Network Management System (NMS) and facilitates service management available to VNOs via an electronic B2B interface.

SkyEdge II-c Service Management enables VNOs to manage their services totally independent of the satellite network operator, providing a complete management suite. This includes real-time viewing of the service status, events, alarms and statistics, as well as historic trend analysis of the service over longer periods.

SUPERIOR VSAT TECHNOLOGY

Designed to support the latest standard and high throughput satellites, Capricorn-4’s advanced adaptive transmission technologies maximize performance and improve service availability. Capricorn-4 is based on Gilat’s VSAT technologies, which power over a million terminals worldwide.

TECHNICAL SPECIFICATIONS

FORWARD CHANNEL
- Standard: DVB-S2 Adaptive Coding and Modulation (ACM)
- Carrier Rate: 1.5Msps-67Msps (235Mbps)
- Modulation: QPSK, 8PSK, 16APSK, 32APSK
- Coding: LDPC, BCH
- FEC: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

RETURN CHANNEL (TDMA)
- Access Scheme: MF-TDMA, Dynamic Channels
- Inbound Rates: Symbol rate - 128Kbps-4Msps, 6Msps*
- Modulation: BPSK, QPSK, 8PSK, 16QAM
- Coding: TPC
- FEC: 1/3, 2/5, 1/2, 2/3, 3/4, 4/5, 6/7

RETURN CHANNEL (SCPC)*
- Standard: DVB-S2 Adaptive Coding and Modulation (ACM)
- Carrier Rate: 1.5Msps-40Msps
- Modulation: QPSK, 8PSK, 16APSK
- Coding: LDPC, BCH
- FEC: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

MODEM INTERFACES
- RF Input/Output: Two female F connectors, 75 Ω
  RF in frequency - 950-2300MHz
  RF out frequency - 950-2300MHz
  DISEqC
- Data Interfaces: 4 x Ethernet 10/100/1000BaseT RJ-45, 802.1q VLAN
  1 x Serial Interface, RJ-45
- Management Interface: Web-based local management
  Full FCAPS management
  Remote software upgrades over the air
  SNP

ENHANCED FEATURES
- IP Features:
  IPv4/IPv6, TCP, UDP, ICMP, DHCP, NAT/PAT, DNS Caching,
  cRTP, IGMPv2, SIP, DiffServ, VLANS, RIPv2, Static Routes
- QoS:
  Per VSAT and per Managed Group, CIR, MIR, CBR,
  DiffServ and priority-based queuing, application-based priority
- Security:
  AES-256 bit encryption
  IPSEC Client
  ACL Firewall
  X.509 Terminal Authentication
- Application Acceleration and Protocol Optimization:
  TCP acceleration
  HTTP web pre-fetch acceleration and compression
  GTP cellular data acceleration
- Mobility - Antenna Interface:
  Gilat ICD (Serial)
  OpenAMIP (IP)

ENVIRONMENTAL AND MECHANICAL
- Dimensions: 201 x 185 x 34mm (WxDxH)
- Operating Voltage:
  - 100V-240V AC Auto Range
  - 11V-60V DC Auto Range
- Operating Temperature: 0ºC to +50ºC
- Certifications: CE, FCC, EMC

OUTDOOR UNIT (ODU)
- Frequency Bands: C, Ku, Ka
- Transmitter Power: Via IDU 24V or 48V DC Insertion
  up to 12 W BUC^*
- Antenna Size: 0.76m and higher
- Operating Temperature: -40ºC to +60ºC

* Future software upgradable
^ Requires selection of appropriate IDU power supply

To learn more about SageNet the SkyEdge II-c Capricorn-4, visit our website, www.sagenet.com, or call 1-866-480-2263.