SPACEBRIDGE
ALL THINGS CONNECTED

E7000 is an enterprise-class VSAT satellite modem, designed as a network appliance to cover business connectivity needs.

Features and Benefits

- Layer-3 support including enterprise routing protocols and VRRP for route diversity
- Transparent Layer-2, VLANs and trunks support.
- Built-in PEP (Performance Enhancing Proxy) enhancing user experience and conserving satellite bandwidth usage, optimizing the link in both in both point-to-point SCPC deployments and in hub-spoke mode.
- Encrypted VPN tunnel support, allowing traffic protection from VSAT modem to the hub or to enterprise own router (ordering option).

Typical Applications and Uses

- Enterprise branch connectivity.
- Small Medium Enterprise (SME).
- Satellite-as-backup applications.

Specification

Unit Characteristics	
Form Factor	Indoor desktop.
Installation	- Indoor. - Matching variety of outdoor / RF options: C-band, X-band, Ku-band and Ka-band.
Typical Applications	- Enterprise branch connectivity. - Satellite-as-backup applications.
Forward Link / RX	
Technology	DVB TDM Forward Link.
Channel Rate	Up to 500MHz.
Waveform	DVB-S2/S2X ACM, GSE encapsulation, QPSK up to 256APSK LDPC/BCH.
Channel Spacing	5%, 10%, 20%, 25% or 35% channel spacing (roll-off factor).
Terminal IFL Input	F-type 75 ohm, 950 – 2150MHz satellite / band independent.
Return Link / TX	
Technology	- MF-TDMA CF-DAMA (Combined Free and Demand Assigned Multiple Access). - Terminal built-in Uplink Power Control (ULPC) and network-wide PowerACM™ link variability mitigation providing support for Ka, Ku and C-band.
Channel Rate	64Ksps up to 8192Ksps.
Waveform	BPSK, QPSK, 8PSK, 16QAM.
Channel Spacing	10%, 15%, 20% or 25% channel spacing (roll-off factor).
Terminal IFL Output	F-type 75 ohm, 950 – 2150MHz satellite / band independent.

IP Services, PEP and QoS

Interfaces	▪ 1x 10/100/1000 Mbps Eth RJ-45. ▪ 1x out-of-band satellite modem management.
Download Speed	Up to 100Mbps.
Upload Speed	Up to 25Mbps.
Connectivity	▪ Wireline transparent Layer-2 connectivity. ▪ VLAN and VRF (Virtual Routing and Forwarding) support. ▪ Layer-3 NAT and DHCP server / DHCP relay. RIP routing protocol. VRRP support. ▪ Full multicast support from hub or from behind remote.
Application Optimization	TCP/IP and HTTP acceleration.
QoS	Built in embedded QoS support integrated with Forward and Return Link ACM
Multimedia Support	▪ VoIP, video-over-IP / video-conferencing Virtual Telephony™ support. ▪ Multimedia QoS support, bandwidth assurance for clear VoIP QoE.
Security	IPSec VPN tunnel strong encryption (availability limited by export control regulations).

Environmental and Mechanical

Dimensions	230 x 44 (1RU) x 210mm (W x H x D)
Weight	1Kg
Power	▪ 25W (not including installation / RF equipment), universal 100-240V AC 50/60Hz external power supply. ▪ 24V DC provided to BUC ▪ 40W available for installation and RF outdoor equipment.
Operating Temperature	0 – 50°C, 5% to 90% humidity non-condensing.
Certification	CE, FCC, CSA.

Available Configurations

E7000 – standard enterprise satellite modem.

E7000-E – enterprise satellite modem with VPN encryption option included.

NOTE: The E7000 is also marketed as VR7000