

Compact ASAT System Internet-access satellite modem/router appliance.

Features and Benefits

- Built in DHCP/NAT IP services
- TCP/IP acceleration
- Support voice and video multimedia applications
- DVB-S2 efficient Forward Link supporting ACM rain fade mitigation
- Easily deploy and service remote households and offices
- Fast downloads
- Resilient Internet connectivity

Applications and Uses

- Small office / home office.
- Small medium enterprise branch connectivity.
- Residential Internet access.



S4120 - ASAT™ System Internet Access Satellite Modem/Appliance

Specifications

Forward Link / RX	
Waveform technology	DVB-S/S2 ACM, MPE encapsulation, QPSK up to 32APSK LDPC/BCH TDM Forward Link
Channel Rate	Up to 45Msps
Channel Spacing	Enhanced DVB-S2, down to 5% (roll-off factor)
Link variation mitigation	Adaptive Coding and Modulation (ACM) support
RX power	Max allowed: -5 dBm over entire L-band, -65dBm to -20dBm over 36MHz transponder
Terminal IFL Input	F-type 75 ohm, 950~2150MHz satellite / band independent, off/18V DC selectable matching any COTS ODU
Return Link / TX	
Waveform technology, channel rate and spacing	MF-TDMA (combined free and demand-assigned multiple access), QPSK, 8PSK
MF-TDMA symbol-rate	128Ksps up to 2560Ksps
Channel spacing	Down to 20% (roll-off factor)
Link variation mitigation	Terminal built-in Uplink Power Control (ULPC) with ACM support for Ku and C-band
TX power	-30dBm to 0dBm
Terminal IFL Output	F-type 75 ohm, 950~1450MHz satellite / band independent, off/24V DC, off/10MHz reference selectable matching COTS ODU. Supports powering 2W BUC
User-traffic, PEP and QoS	
Traffic interface	1x 100Mbps Fast Eth
Download	35Mbps.
Upload	3.5Mbps.
Network services	Layer-3 NAT, DHCP server / relay. Multicast support.
Traffic optimization	TCP/IP and HTTP acceleration
QoS	Up to 8 flows, based on TOS/DSCP, IP addresses, protocol and ports
Real-time applications	SIP snooping VoIP, video-over-IP / video-conferencing support
Management	
Management interfaces	<ul style="list-style-type: none"> • Web GUI • Managed by ASAT System NMS
Mechanical and environmental	
Form Factor	Indoor miniature desktop
Dimensions	9.06 x 1.74 x 8.27 inch W x H x D (230 x 44 x 210 mm)
Weight	3.2 pounds (lb) (1.45Kg) + 0.89 pounds (lb) (0.4Kg) external power supply
Power	<ul style="list-style-type: none"> • External universal power supply, 90~240V AC 50~60Hz (appropriate power cord provided according to region per order) • Consumption: 13W (not including RF equipment / BUC power) • 25W @ 24V DC available for installation and RF equipment
Operating Temperature	<ul style="list-style-type: none"> • 32°F~131°F (0°C~50°C) • 10%~90% relative humidity non-condensing
Certification	CE, ROHS