

Powerful Internet-access satellite modem/router capabilities packed into a compact desktop appliance.



Applications and uses

- Mass market broadband Internet access
- Small Office Home Office (SOHO), Small Medium Business (SMB)
- Rural Internet access

Features and benefits

- Miniature desktop design
- Operation with most COTS RF BUC/LNB or transceivers
- Noiseless fan
- Wideband DVB-S2X forward link, superior spectral efficiency with highly granular MODCODs and Adaptive Coding and Modulation (ACM)
- Internet-traffic optimization and QoS, enhancing user experience and conserving satellite bandwidth
- VoIP and multimedia support
- Over-the-air AES 256 encryption licensing option
- Optional iTool self / assisted-installation capabilities for mass network deployment

Specifications

Forward Link

Waveform technology	DVB-S2/S2X ACM, MPE/GSE encapsulation, QPSK up to 256APSK LDPC/BCH TDM Forward Link
Channel rate	Up to 120Msps
Channel spacing	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/13/18/21V DC and off/22KHz selectable matching any COTS ODU

Return Link

Waveform technology, channel rate and spacing	MF-TDMA (combined free and demand-assigned multiple access), QPSK, 8PSK and 16QAM (option)
MF-TDMA channel rate	128 up to 7450Ksps
Channel spacing	Down to 10% (roll-off factor)
Link variation mitigation	Terminal built-in Uplink Power Control (ULPC) with ACM supporting Ka, Ku and C-band
TX power	-30dBm to 5dBm
Terminal IFL Output	F-type 75 ohm, 950-2400MHz satellite / band independent, off/24V DC, off/10/50MHz reference selectable matching any COTS ODU

User-traffic, PEP and QoS

Traffic interface	1x GbE 1000Base-T
Download	100Mbps
Upload	1Mbps baseline, 6 / 10Mbps TX BW upgrade license steps
Packet processing	15K PPS
Network services	Layer-3 NAT, DHCP server / relay, Multicast support
Application optimization	<ul style="list-style-type: none">TCP/IP and HTTP accelerationTraffic compression option

User-traffic, PEP and QoS (cont')

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 through out-of-band EthernetManaged by ASAT System NMS
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Mechanical and environmental

Form Factor	Indoor, miniature desktop
Dimensions	2 x 7.25 x 5 inch W x H x D (51 x 185 x 127 mm)
Weight	0.85 pounds (lb) (0.39Kg)
Power	<ul style="list-style-type: none">External universal power supply, 100-240V AC 50-60Hz C6 inlet (appropriate power cord provided according to region per order)Consumption: 15W (not including RF equipment / BUC power)45W available for installation and RF equipment
Operating conditions	32°F~122°F (0°C~50°C), 10%-90% relative humidity non-condensing
Certification	CE, FCC, ROHS

Ordering information

Unit build configurations

16A+007700-100	C7700 broadband satellite modem
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Optional licenses

C7700 TX-BW upgrade step license (6 / 10Mbps steps)
