

The SBM-90X Wideband is an Extreme High Throughput SCPC/MCPC modem suitable for GEO/LEO/MEO Satellites

Features and Benefits

- Up to 1.476 Gbps aggregate throughput
- Software Defined Network support
- Indoor 19" rack-mountable
- LCD Active Front panel for easy configuration
- Vast deployment flexibly
 - Supports hub-less point-to-point deployments as well as Point to Multi Points
- Layer-2 and Layer-3 support
 - Quality of Service (QoS)
 - Built-in PEP (Performance Enhancing Proxy) enhancing user experience and conserving satellite bandwidth usage, optimizing the link in both in both point-topoint SCPC deployments and in hub-spoke mode.
 - Header and payload compression
- OpenAMIP antenna interface support for SATCOM on the Move (SOTM) applications
- AES-256 Encryption Optional



Typical Applications and Uses

- Broadband trunks
- Community Internet Access Distribution
- 3G/4G/LTE/5G cellular backhaul (Optional)
- Multi-stream, Multicast
- Dynamic video-stream contribution applications
- Mobile applications
- Fiber Mission-critical backup links.
- Dynamic-throughput BoD high-capacity links.
- Surveillance, government, defense and military.
- GEO/MEO/LEO applications

Specification Unit Characteristics

Offit Characteristics	
Form Factor	19" Rack mountable
Installation	Indoor.
	IP65 weather proofed - Optional
	 Matching variety of outdoor / RF options: C-band, X-band, Ku-band and Ka-band
	• OpenAMIP antenna integration, GPS integration for on-the-pause / on-the-move
	applications.
Typical	• Telecomm: Trunking, community Internet distribution, 3G/4G/LTE/5G cellular
Applications	backhaul
	Professional: Mobile applications, video contribution
	Surveillance, government, defense and military
	Point-to-point or Point to Multipoint
Forward Link / RX	
Technology	DVB-S2X TDM Forward Link.
Channel Rate	500 ksps to 125 Msps
	250 Msps and 500 Msps – Optional
Waveform	DVB-S2X ACM or CCM, GSE encapsulation, BPSK up to 256APSK LDPC/BCH
Channel Spacing	5%, 10%, 20%, 25% or 35% channel spacing (roll-off factor).
Terminal IFL Input	50 Ohm N type- 950 – 2150MHz satellite / band independent.



Return Link / TX	
Technology	DVB-S2X TDM Return Link.
Channel Rate	500 ksps to 125 Msps
	250 Msps and 500 Msps – Optional
Waveform	DVB-S2X ACM or CCM, GSE encapsulation, BPSK up to 256APSK LDPC/BCH
Channel Spacing	5%, 10%, 20%, 25% or 35% channel spacing (roll-off factor).
Terminal IFL Output	50 Ohm N type- 950 – 2150MHz satellite / band independent.
IP Services, PEP and	QoS
Interfaces	2 x 1GbT user data Eth RJ-45 ports, 1x out-of-band modem management Eth port
Download Speed	Up to 738Mbps
Upload Speed	Up to 738Mbps
Connectivity	 Layer-2 bridging, VLAN, MPLS and VRF (Virtual Routing and Forwarding) support
	Full multicast support from hub or from behind remote
	Layer-3, OSPF, RIP, SDN switch
	 Built-in SDN controller: control plane for static/dynamic routing (MPLS, BGP etc.)
Application	TCP/IP and HTTP acceleration
Optimization	GTP acceleration - optional .
QoS	Built in embedded QoS DSCP, MPLS QoS for Multiservice Network
	ToS support integrated with Forward and Return Link ACM
Multimedia Support	 VoIP, video-over-IP / video-conferencing support, Virtual Telephony™; Multimedia
	QoS support, bandwidth assurance for clear VoIP QoE
Packet Handling	2,000,000 pps (1,000,000 pps in each direction)
Environmental and N	<u>lechanical</u>
Dimensions	435 x 45 (1RU) x 292 mm (W x H x D)
Weight	~ 5Kg
Power Consumption	48W
Power Output	100W