SpaceBridge Multi-Channel Receiver (MCR) – 8 provides a powerful octal SCPC receiver in support of SpaceBridge ASAT WaveSwitch™ services and/or to provide a SCPC site aggregation for up to 8 U7800 remote UT or SBM-90X SCPC modems.

Applications and use

- Provide HUB side support for SpaceBridge ASAT WaveSwitch™ service (up to 8 simultaneous connections) per unit

Customer deployment examples

- Trunking as primary or as fiber backup
- High capacity cellular backhaul for multi-tenant applications, such as remote communities, cruise ships, mining and offshore
- 2.5G/3G/4G/5G dense trunks
- Macro cell / urban boost capacity in dense populations
- On-the-pause, first-responder / emergency-response dense backhaul
- High-efficiency enterprise fast and transparent connectivity
- Mobile communications for defense, SNG, on-demand events

Features

- Octal-narrow band SCPC receivers capable of supporting up to 8 x 125Msps return channels.
- Spectrally efficient DVB-S2X waveform with feedback ACM loop
- Layer 2 or L3 transport
- DVB-S2X TX port for active loopback testing/ product verification/provide a pilot for ACM support/etc.

Benefits

- Rack mount for easy deployment
- Limitless user traffic support for mission critical applications
- Powerful wire-speed packet processing
- Easy integration with any networking infrastructure

MCR8 High Performance SCPC Receiver

Specifications

RX	
Receiver	8 separate SCPC receivers over a single L-band input.
Waveform technology	DVB-S2X, GSE encapsulation, QPSK up to 256APSK LDPC/BCH
Channel rate	1Msps up to 125Msps
Roll-off and Channel spacing	ACM, VCM and CCM modes support
Roll-off	• 5%, 10%, 20%, 25% or 35%
Link variation	• Built-in Adaptive Coding and Modulation (ACM)
RX power	Max composite allowed: -5 dBm over entire L-band, -65dBm to -20dBm over 36MHz transponder
Terminal IFL input	• F-type/75 Ω (N-type/50 Ω option) • 950~2400 MHz satellite / band independent
Network interface	
Traffic interface	• 2 x GbE user data ports
RX	• Up to 2 Gbps
Network services	L3 support for ASAT WaveSwitch™ services. L2 support for SBM-90X SCPC services
Management	
Management interfaces	• Web interface GUI • SNMP, V1,2 and 3, Telnet, CLI
Mechanical and environmental	
Form Factor	19" Rack mount
Dimensions	17" x 1.72" x 29" W x H x D (435 x 45 x 737 mm)
Weight	24 lb (10.9 Kg).
Power	• Universal power supply, 100~240V AC 50~60Hz C14 inlet (appropriate power cord provided according to region per order) • Consumption: 120W
Operating Conditions	• 32~122°F (0~50°C) • 10%~90% relative humidity non-condensing • Up to 9840 feet (3000 meters) operating altitude
Certification	CE, FCC, ROHS

Ordering Information

Unit build configurations	
P/N: 16A-0XMCR8-100	MCR8- Octa (8) DVBS2X SCPC Receiver