



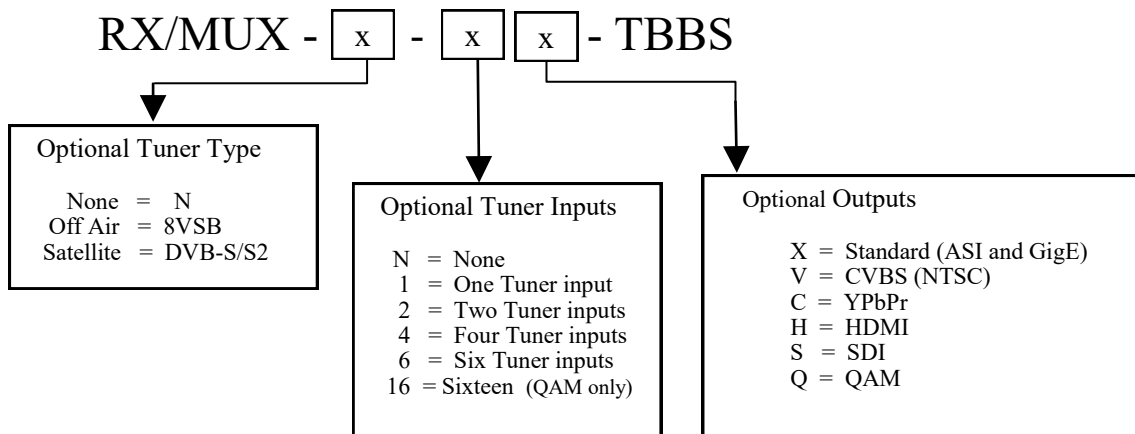
RX/MUX ATSC Receiver / Multiplexer / De-coder

Our RX/MUX series multiplexer is a professional broadcast quality ATSC or DVB-S/DVB-S2 receiver for CATV Headends. It can be configured in multiple ways to suite your Headend needs. As a ATSC to ASI/ GigE receiver It can receive up to six independent off air 8-VSB modulated digital channels or six DVB-S/ DVB-S2 satellite feeds along with two separate ASI inputs (8 inputs total). These HD/SD streams are multiplexed into two UDP 54mbps GigE streams through its data port and two ASI streams. Along with it's program drop/add multiplexing feature, PSI/SI editing, PID re-mapping, service filtering it also can insert EPG (Electronic Program Guide), CA (Conditional Access) and data casting information into each output stream.

As a decoder it can accept up to two ATSC tuner cards which can be de-muxed and muxed with it's ASI and GigE input ports and sent out on it's GigE and ASI output ports. One channel can be de-coded and sent out as CVBS, YPbPr, HDMI or SDI. Our QAM version has 16 ATSC inputs and 4 QAM concurrent outputs. **NEW** with 1 year warranty and technical support from Thomason Broadband.



Part Number Matrix





General Specifications



Configured as a Standard ATSC Receiver

INPUT Interface	DVB-S/S2 2 ASI + 2,4,6 DVB/S DVB/S2 8/5B 2 ASI + 2,4,6 ATSC	User Interface	Service Port 10/100M Type SNMP / front panel (software included)
Multiplex	2 MPEGoIP Streams 54mbs each PID re-mapping (auto/manual) PCR adjust Auto PSI/SI Table generation	General	Dimensions 19"x16"x1.73" (1RU)
Outputs	2 ASI on 2 separate ports 2 UPD GigE on one Data Port PID Range 0x0000—0x1FFF PID per input 64 PID transparent transmission and mapping		Power AC 110-220V 50/60Hz 18W 2 internal fans Temperature Range 32 - 113F operational -4 - 176F storage

Configured as a CVBS Decoder

INPUT Interface	Standard 1 ASI + 1 IP Optional (max 2) DVB/S DVB/S2 and/or ATSC	User Interface	Service Port 10/100M Type Web GUI
Multiplex	Drop/Add from all inputs	General	Dimensions 19"x16"x1.73" (1RU)
Outputs	2 ASI on 2 separate ports 1 UPD GigE on one Data Port 1 CVBS, YPbPr, HDMI or SDI (chose one) 2 Analog stereo audio outputs or 1 Dolby Digital/Dolby Digital Plus (5.1) channel output		Power AC 110-220V 50/60Hz 18W 2 internal fans Temperature Range 32 - 113F operational -4 - 176F storage



Features

- **Demodulation, descrambler, re-mux, decoder modules in one box.**
- **DVB-C/T/S/S2 or ATSC-T Tuner inputs available.**
- **ASI & GigE IP (UDP) inputs for Mux/Re-mux.**
- **CAM can decrypt multiple programs from Tuners/ASI/IP.**
- **Supports BISS descrambling (Up to 120Mbps).**
- **Video output with various interface options (MPEG2/H.264).**
- **Dual stereo audio output, or one Dolby Digital/Dolby Digital Plus (5.1) channel output.**
- **Supports Dolby Digital/Dolby Digital Plus Decoding and pass-through.**
- **IP (1 MPTS & 8 SPTS) over UDP and RTP/RTSP output; ASI out.**
- **Supports CC, Subtitle and Teletext.**
- **Supports maximum of 128 PID mapping per input.**
- **Pluggable and changeable demodulator and decoder modules.**
- **LCD display, Remote control and Firmware, web NMS management.**
- **Updates via web.**



Detailed Specifications

Input	
2 x DVB-S/S2RF, F type	
1xASI input for re-mux, BNC interface	
1xIP input for re-mux (UDP)	
Demodulating Section	
DVB-C	
Standard	J.83A(DVB-C), J.83B, J.83C
Input Frequency	30 MHz~1000 MHz
Constellation	16/32/64/128/256 QAM
DVB-T/T2	
Input Frequency	30MHz ~999.999 MHz
Bandwidth	6/7/8 M bandwidth
DVB-S	
Input Frequency	950-2150MHz
Symbol rate	2-45MSPS
Signal Strength	- 65- -25dBm
Constellation	1/2, 2/3, 3/4, 5/6, 7/8 QPSK
DVB-S2	
Input Frequency	950-2150MHz
Symbol rate	QPSK 1~45Mbauds; 8PSK 2~30Mbauds
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Constellation	QPSK, 8PSK
ATSC-T	
Input Frequency	54MHz~858MHz
Bandwidth	6M bandwidth

Descrambling	
CAM/CI Quantity	2
BISS Mode	Mode 1, Mode E; up to 120Mbps
Output	
IP Output	1*MPTS & 8*SPTS over UDP, RTP/ RTSP. 100Base-T Ethernet interface (unicast / multicast)
2xASI	BNC interface, mirrored out
Decode Output	Video Interface: 1xCVBS/YpPr/ HDMI/SDI Resolution: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p Video Decode: MPEG-2; H.264 Audio Interface: 2 x Stereo/4xmono, HDMI, SDI Audio Decode: MPEG 1 Layer II, LC- AAC, HE-AAC, Dolby Digital/ Dolby Digital Plus Audio Output Mode: Left, Right, Stereo, 5.1 CH
System	
Local inter- face	LCD + control buttons
Remote man- agement	Web-server Management
Language	English
Upgrade	USB, web management
General	
Power supply	AC 100V~240V
Dimensions	482*300*44.5mm
Weight	3 kgs