

## ATSC Legacy Mux

XBT526 ATSC Multiplexer is a SSBT ATSC multiplexer compliant to ATSC A/53 and A/65 standard A153 ATSC-MH standard.



> XBT 526

### Main Features

- Output interleaved transport stream by multiplexing Legacy ATSC input and place holder stream with predefined PID for MH dat
- Output interleaved Transport stream formed by multiplexed Transport stream and a MH transport stream with predefined PI
- Table PSI insertion
- 16 Carousel of PSI/SI tables with variable bit rate
- Storage of internal carousels content
- Graphical display of input TS data based on SI/PSI analysis
- Output bit rate at exact 19.39 Mbps in 6 Mhz channel.



INPUTS TO MULTIPLEXER ARE:
8 ASI or 8 SSI transport streams
1 SPI connector for multiplexer extension
2 RTP clients for RTP/UDP encapsulated Transport Streams on 2 different ports of a single IP address

OUTPUTS FROM MULTIPLEXER ARE:
4 ASI transport streams carrying all the same transport stream out
1 RTP/UDP Server carrying encapsulated Transport stream
SPI output for system extension

AS ANY MULTIPLEXER OF THE XBT FAMILY, IT HAS BUILT-IN:
Web server to dispatch a Java applet for interactive management
Java applet tested on most popular browser
Java applet downloadable for local execution
SNMP server for remote control
GPS receiver capable of synchronizing internal time generators
Internal file system accessible via TCP/IP and TFTP protocols for easyremote upgrade
Telnet server for access via character based terminals
Geographical coordinates available
Battery powered local time clock automatically synchronized to UTC
8 trap address for automatic alarm/monitoring

PHYSICAL
1U rack frame
Size:
W: 19,05"
H: 1,7"
Lbs: 8,81 (kg 4)
Size
D: 13,62"

POWER SUPPLY
90-270 VAC PFC corrected power supply
Nominal power 38 VA
Power factor: 0.95
Max inrush current 15A
M6 screw for extra ground connection
Power cord: US standard

ASI INPUTS
EN 500083-9 compliant
BNC connectors 75 ohm
ATSC bit rate

SSI INPUTS
EN 500083-9 compliant
DB25 female connector
ATSC bit rate

SPI INPUTS
EN 500083-9 compliant
DB25 female connector
ATSC bit rate

ETHERNET CONNECTION
10/100/1000 Mbit Thernet connector
1 IP address for web server, management, SNMP server, Telnet, TFTP and remote update
1 IP address for RTP/UDP server
1 IP address for RTP/UDP client
RTP protocol: ProMpeg cop3 with no FEC packet processing/ generation
Optional NTP client

GPS INPUT
TNC connector 50 ohm
Phantom power 3 Volt 50 mA short circuit protected
GPS L1
12 channel simultaneous operation
45 s typical cold start TTFB
38 s typical warm start TTFB
5 s typical hot start TTFB
<0.5 s reacquisition
Sensitivity Acquisition/Tracking -185dBW / -185dBW
30ns rms accuracy, <10ns resolution

ASI OUTPUT
EN 500083-9 compliant
BNC connectors 75 ohm
Maximum bit rate 27 Mbytes

SPI OUTPUT
EN 500083-9 compliant
DB25 female connector
Maximum bit rate 27 Mbytes

FRONT PANEL
4 x 20 alpha displays
Button navigation
Basic setup and status

REFERENCE INPUTS	
10MHz	SMB connector 1Vpp sine 50 ohm terminated AC coupled option "HIZ" available
1 sec PPS	SMB connector 0.4 VIL 1.7 VIH Dc coupled 50 ohm terminated Option "HIZ" available

REFERENCE OUTPUTS	
10MHz	SMB connector 1Vpp sine 50 ohm DC coupled
1 sec PPS	SMB connector 0.2 VOL @ 64 mA IOI 2.2 VOH @ 64 mA IOH Dc coupled 50 ohm capable

REMOTE CONTROL INTERFACES	
RS-232	Dedicated DB9 connector Data only Also available on remote control DB25 connector 230kbit
Relays	4 relays for alarm/info NO & NC contacts at connector Available on remote control DB25 connector Opto couplers 4 opto couplers for command Internal floating current generator Common anode 2 mA max on current
Functions	Default: 1 relay alarm/ok Option "N1": use relay and opto for SSBt N+1 system

SOFTWARE
Java applet requires Java 6 Version 13 or more recent
Java applet tested on Safari, Internet Explorer, Mozilla
Browser will download automatically suitable version of Java if connected to internet
SNMP is version 2 complian
MIB files included in CD

