## XBT 667

## SPEED Multiplexer Mobile



> XBT 667 - Multiplexer Mobile

SPEED Multiplexer mobile is the most flexibleand scalable solution for ATSC Mobile DTV presenting a complete list of features from Preprocessor of the Mobile Stream to aggregation of the legacy ATSC and mobile ATSC MH streams into your Transmitter.



## **Main Features**

## Preprocessor:

- MH Preprocessor:
- Real Time multiplexes of Mobile A/V, Data and ESG
- Information editing function of FIC, TPC, Signaling generator (SMT, GAT, SLT, CIT and RRT)
- Internal generation of SSC IP packet for each ensembles for each parade
- Dedicated Gigabit port for ATSC-MH services
- Perform single and multiple ensemble
- Perform up to 16 parades and up to 32 ensembles
- Support all modes in the ATSC A/153 standard to calibrate the right quality-of video/number-of-channel ratio
- $\bullet$  Output interleaved transport stream by multiplexing MHE packet MH PART (MH data) and Legacy ATSC
- Packet timing and PCR restamping for the legacy ATSC packets.





IN	IPUT TO MULTIPLEXER ARE:	
1 ASI/SSI transport streams		
1 GBe port for MH services		
OUTR		
OUTPUTS FROM MULTIPLEXER ARE:		
4 ASI transport streams carrying all the same transport stream out		
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 brow	ser	
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 easy remote 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		
PHYSICAL		
1U rack frame		
Size:	10.05"	
W: H:	19,05" 1,7"	
H: 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		
BNC connectors 75 ohm		
ATSC bit rate		
ETHERNET CONNECTION		
10/100/1000 Mbit EThernet 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 TTFF		
38 s typical warm start TTFF		
5 s typical hot start TTFF		
<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 as per DVB-T standard		
FRONT PANEL		
4 x 20 alpha displays	HONTFALL	
Button navigation		
Basic setup and status		
	REFERENCE INPUTS	
10MHz	SMB connector	
	1Vpp sine	
	50 ohm terminated	
	AC coupled	
	option "HIZ" available	
	SMB connector	
	0.4 VIL	
1 sec PPS	1.7 VIH	
- Sectors	Dc coupled	
	50 ohm terminated	
	Option "HIZ" available	
REFERENCE OUTPUTS		
	SMB connector	
	1Vpp sine	
10MHz	50 ohm	
	DC coupled	
	SMB connector	
	0.2 VOL @ 64 mA IOL	
1 sec PPS	2.2 VOH @ 64 mA IOH	
	Dc coupled	
	50 ohm capable	
REM	OTE CONTROL INTERFACES	
RS-232	Dedicated DB9 connector	
	Data only	
	Also available on remote control DB25 connector	
	230kbit	
Relays Functions	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	
	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 1 compliant		
MIB files included in CD		



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