XBT 538

MFP Multiplexer (Metric Feed Packets)



> XBT 538

XBT538 MFP Multiplexer is the head end main building block of the powerful SSBT regionalization system.

XBT538 MFP Multiplexer performs the following basic functions:

- GPS receiver capable of synchronizing internal time generators
- Metric Feed Packets generation
- Multiplexing of Metric Feed Packets and 4 transport streams selected between 11 physical inputs with PCR re-stamping
- Perform network adaptation to the final Fat Pipe output transport stream bit rate

Inputs to multiplexer are:

- 8 ASI transport streams
- 1 SPI connector for multiplexer extension
- \bullet 2 RTP clients for RTP/UDP encapsulated Transport Streams on 2 sockets on single ethernet port

Outputs from multiplexer are:

- 4 ASI transport streams carrying all the same MFP transport stream
- 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
- Internal file system accessible via TCP/IP and TFTP protocols for easy remote upgrade
- Ultra fast storage are for event system storage
- 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

Main Features

Remote control interfaces

RS-232

- Dedicated DB9 connector
- Data only
- Also available on remote control DB25 connector
- 230400 bps

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



	PHYSICAL	
Rack frame	1U	
Size	(W) 484 mm x (H) 45 mm x (D) 346 mm	
Weight	4kg	
	DOLLIED CHIPPLY	
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	I	
Power cord	Default - Italy	
	Option "UK" - UK standard	
	Option "DIN" - Germany and central Europe DIN connector	
	Option "US" - US standard	
ASI INPUTS		
EN 500083-9 compliant		
BNC connectors 75 ohm		
Maximum bit rate 155 Mbit		
SPI INPUT		
EN 500083-9 compliant		
DB25 female connector		
Maximum bit rate 27 Mbytes		
ETHERNET CONNECTION		
10/100/1000 Mbit Ethernet connector		
	t, 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		
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		
SPI OUTPUT		
EN 500083-9 compliant		
DB25 female connector		
Maximum bit rate as per DVB-T standard		
FRONT PANEL		
4 x 20 alpha displays		
8 button navigation		

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 IOL	
	2.2 VOH @ 64 mwA IOH	
	Dc coupled	
	50 ohm capable	
COLLINADE		
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		

Available Options

MIB files included in CD

- "UK" UK standard power cord
- "DIN" Germany and central Europe DIN connector
- "US" US standard power cord
 "HIZ" 10MHz option "HIZ" available
- "HIZ" 1 sec PPS option "HIZ" available "N1" use relay and opto for SSBT N+1 system



Basic setup and status