



DVB-T/H MONITORING SILVER

COST EFFECTIVE DVB-T/H MONITORING



Key features

Standard features:

- 3 versions for cost optimizations
- 1U rack format
- DVB-T and DVB-H
- Alarm customization
- Installation in the coverage area or on the transmitter site
- Up to 40 multiplexes in sequential mode
- RF and ASI monitoring at the same time (for RF+MPEG version)
- TCP/IP for remote access and configuration (ADSL, PSTN,...)
- SNMP traps sending

Options:

- SFN and DVB-H
- Remote control (digital inputs and relays outputs) delivered with ScriptEasy application
- Broadcast Manager (Web server software)

Range of application

DVB-T/H Monitoring Silver is a cost effective solution for autonomous DVB-T/H monitoring on transmitter site or in the coverage area.

Checking in real time its inputs (RF and/or ASI), the unit ensures automatically that your DVB-T/H network complies with your expectations.

Thanks to its Ethernet interface, DVB-T/H Monitoring Silver can be controlled remotely using its user-friendly software or a SNMP-Based network management such as Broadcast Manager

System Architecture

Placed on transmitter site, DVB-T/H Monitoring Silver can monitor continuously:

- An RF signal (coming from a monitoring output, a probe...)
- An ASI transport stream (on the multiplexer output, after the transport link, at the output of the RF receiver ...)

Placed anywhere in the coverage area, DVB-T/H Monitoring Silver can monitor sequentially:

- Up to 40 RF signals (coming from an antenna...)
- The ASI transports streams demodulated from the RF input

Using TCP/IP links, the whole unit laid out to cover the network can interact with a central SNMP-based manager like Broadcast Manager

Remote Access



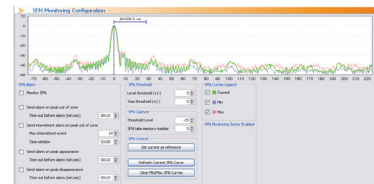
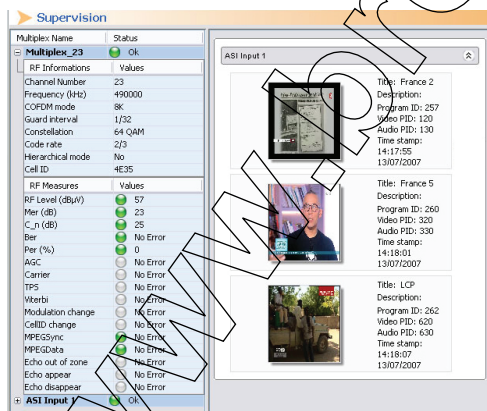
DVB-T/H Monitoring Silver is configured remotely using a user-friendly PC application over a TCP/IP network (Ethernet, PSTN, RTC, ADSL, ...)

SFN Option

Several transmitters in SFN can be monitored thanks to the « SFN Option », available on RF and RF+MPEG versions. Peaks are automatically detected and monitored, based on user parameters

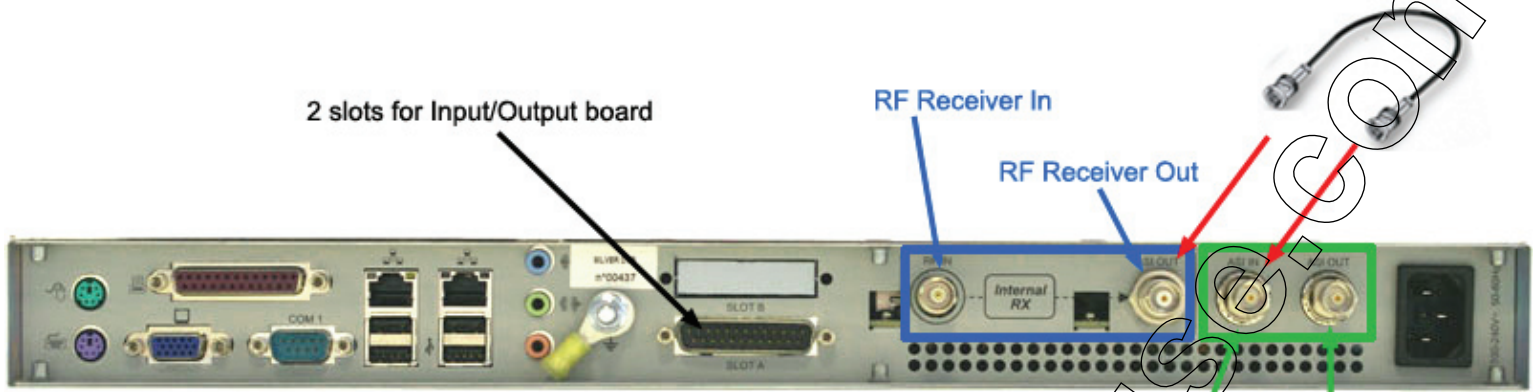
DVB-H option

You can also extend the monitoring capabilities with the “DVB-H option”, available for MPEG and RF+MPEG version. (See details next page)

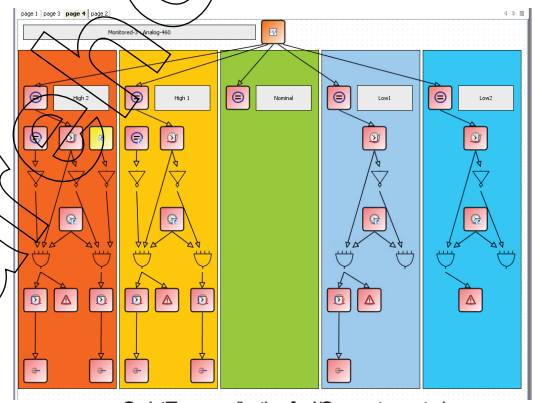


DVB T/H MONITORING SILVER

TECHNICAL SPECIFICATIONS



Comparison table			
	RF	MPEG	RF+MPEG
Hardware			
Size	1U	1U	1U
RF receiver	X	-	X
ASI decoder	-	X	X
LEDs on front panel	5	5	5
Monitoring			
Full RF module	X	-	X
Full MPEG module	-	X	X
DVB-H	-	Option	Option
SFN	Option		Option
I/O	Option	Option	Option



RF and ASI specifications	
Fully compliant with ETSI Standard EN 300 744 (DVB-T)	
Bands	III/IV/V
Modulations	QPSK, 16QAM, 64QAM
FFT Modes	2k, 4k, 8k
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/32, 1/16, 1/8, 1/4
Bandwidth	5, 6, 7, 8Mhz
Networks	SFN, MFN
RF input level	From 30 to 90 dBµV
RF and ASI inputs impedance	75Ω
RF parameters monitored (RF & RF+MPEG versions)	
RF level, BER, MER, PER, Carrier/Noise, DVB-T parameters (Modulation, ...), TS sync loss + sync byte error	
Monitored parameters with DVB-H option	
Burst_too_early, Burst_too_late, Table_Boundary_Missing, Frame_Boundary_Missing, Table_Boundary_Overflow, Frame_Boundary_Overflow, Address_Error, Max_Burst_Duration_Overflow, Padding_Column_Error	

MPEG parameters monitored (MPEG & RF+MPEG versions)	
1st Priority	TS Sync Loss Sync Byte Error PAT Error Continuity Count Error PMT Error PID Error
2nd Priority	Transport Error CRC Error PCR Repetition Error PCR discontinuity Error PCR Accuracy Error PTS Error CAT Error
3rd Priority	NIT Error (Actual/Other) SI Repetition Error Unreferenced PID Error SDT Error (Actual/Other) EIT Error (Actual/Other/PF) RST Error TDT Error
MIP Tables (errors of timing, structure, presence, pointer, periodicity, ts rate)	
Bit rates of PID	
Services (structure changes)	



contact@audemat-aztec.com - www.audemat-aztec.com

Head office:
20, avenue Neil Arsmstrong - F-33700 Bordeaux-Merignac-France
Tel: +33 (0)557 928 928 - Fax: +33 (0)557 928 929

US office:
1021 Ives Dairy Road - Suite 117 - Miami, Florida 33179
Tel: +1(305) 249 3110 - Fax: +1(305) 249 3113