

decontis. SAM-MT 450

Monitoring

SAM-MT 450 ATSC Monitoring Probe

ATSC-M/H

oioital .

ATSC





♦ Key Features

- 24/7 real-time monitoring of hundreds of parameters on all technical layers
 - o RF
 - o MPEG TR 101 290
 - PID- and Program Bitrate Measurement
 - EPG, Closed Captions CEA-608/-708, SCTE-20
 - \circ Audio/Video
 - Loudness acc. ATSC A/85, ITU-R BS.1770.3, EBU R-128
 Conditional Access

MDTV specific layers

- M/H spec. Signaling, TPC, FIC, SI/PSI, Error Corrections
- IP, UDP, RTP, SDP, ESP
- o ESG, Flute
- $\circ \ \ \text{Conditional Access}$
- monitoring up to 8 multiplexes (MPTS) simultaneously
- support of a wide variety of input and output interfaces
 - RF
 - \circ ASI
 - $\circ \ \mathsf{IP}$
 - o File

also in mixed configurations

- streaming and transcoding the entire A/V content to any remote location
- TS snapshot creation and TS streaming for in-depth problem analysis
- individual configuration of error/warning thresholds and SNMP Traps
- completely remote configurable via SNMP or Remote Desktop
- comprehensive logging all events

♦ SAM-MT 450 At a Glance

SAM-MT 450 is a cost efficient turnkey solution based on common server- and interface hardware. It enables network operators to monitor ATSC, ATSC-M/H and QAM broadcasts area wide.

Up to 8 multiplexes (MPTS) can be monitored in real-time and simultaneously on a single device, providing a very small footprint and affordable CAPEX and OPEX.

The solution offers a wide range of use cases:

- SNMP based monitoring of hundreds of parameters in real-time
- visual monitoring all DTV and MDTV services simultaneously
- in-depth remote problem analysis on all technical layers

SAM-MT 450 is suited for operation in the headend, at transmitter side and in the field.

Solutions for Analysis and Monitoring

♦ Application

(1) DTV + MDTV Monitoring Network

Monitoring Probes SAM-MT 450 receive the broadcast via RF, ASI or IP. Hundreds of parameters are analyzed simultaneously in real-time on all technical layers. The monitoring results and alarms are sent to the operation centers. Additionally the Audio/Video content can be transcoded and streamed to any remote location.

(2) Administration + Maintenance

Network administration and maintenance staff or system engineers can access the monitoring probes via SNMP or via Remote Desktop using the comfortable GUI. Beside all configuration tasks a remote problem analysis can be performed either by streaming the entire TS to the remote location or by creation of TS snapshots. With atscSAM Analysis Pack the TS can be analyzed in any regard up to the last bit.

(3) Operation Center

The Network Management System (NMS) running in the operation center receives all monitoring results and alarms and visualize these for the operators service staff. Especially the decontis atscSAM Operation Center Solution provides a lot of unique features and thus qualified perfectly as central operator component.

(4) Status View

A monitoring viewer application collects and aggregates the monitoring status of all atscSAM based monitoring probes operated by one or several operation centers. It visualizes the current status of all monitoring probes within comfortable Status View and map displays in a read-only manner.

Technical Specification

Interfaces - MPTS ¹⁾²⁾				
	RF	ASI	IP	
Rack Server 1HU	14	14	18	
Rack Server 2HU	18	18	18	
Tower Server	18	18	18	

ATSC, QAM, ATSC-M/H 1) 2) mixed configurations possible

* @ v.m			
RF Input	_		ASI
	ATSC/ATSC-M/H	QAM	Input
Input	75 Ω	75 Ω	Bit Rat
Freq. Range	VHF/UHF	VHF/UHF	Packet

ATSC

ATSC-M/H

ASI Input	
Input	75 Ω
Bit Rate	0214 Mbit/s
Packet Size	188/204 Bytes

Dimension

483 x 43 x 600 mm

483 x 87 x 684 mm

360 x 175 x 417 mm

Digital TV + Mobile DTV

Network

IP Input

Dimensions⁴⁾

Rack Server 1HU

Rack Server 2HU

⁴⁾ depends on actual configuration

Tower Server

1000 Mbit/s Ethernet

System 3)			
Processor	Intel Core i7		
RAM	8 GByte		
HD	500 Gbyte		
USB	2.0/3.0		
Voltage	110 220 V AC		
3)		~	

decontis GmbH 02708 Löbau Germany

– +49 3585 415629

OS

Windows Server 2008

- - dvbsam@decontis.com



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Weight

10 kg

25 kg 9 kg



Input	
Freq. Range	V

Windows 7 professional / ultimate / enterprise

RF Input		
		ATSC/ATSC-N
	Input	75 Ω
	Freq. Range	VHF/UHF