RCS Monitoring Family

HIGHEST PERFORMANCE REAL TIME MONITORING SYSTEM FOR ATSC 3.0 AND ATSC 1.0 NETWORKS

ATSC) 3.0. **ATSC 1.0**



TWO PROBES TO COVER ALL NEEDS:

RCS100 1xRF input, 1xASI input, 1xASI output RCS400 4xRF input, 4xASI input, 2xASI output

PROFESSIONAL MONITORING:

RF ANALYSIS

- O Real Time spectrum
- O Two ways of operation: channel analysis or multiple channel polling
- O Signal quality measurements: Power, C/N, MER, BER measurements, Echoes
- Echoes monitoring
- O U.A.L. Technology
- O Alarm log (real time) and representation (time evolution)

CONTENT ANALYSIS

- O ATSC3.0 and ATSC1.0 Analysis
- O Service Bitrate
- O Table Bitrate
- O Services treeview
- OLLS Tables for ATSC3.0
- O PSI/SI Tables for ATSC1.0
- O STLTP Analysis for IP input
- OTXID for ATSC3.0

AND MUCH MORE...

- O Video thumbnails
- Ethernet connectivity
- O Full historical measurements with alarm analysis
- O 1 PPS & 10 MHz synchronization inputs
- O HTML5 control application
- O SNMP v2c alarms

OPTIONAL FEATURES

- ✓ IP INPUT with VLAN and IGMP suppport
- ✓ Redundant IP INPUT
- ✓ Advanced Measurements
- SFN Drift, frequency offset)
- ✓ Extended Content Analysis
- ✓ TS Recording for ATSC1.0
- ✓ PCAP Recording for ATSC3.0
- ✓ Live Streaming using HLS
- ✓ Services Audio Levels metering

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ADVANCED REMOTE MONITORING SYSTEM FOR ATSC 3.0 AND ATSC 1.0



MANAGEMENT SYSTEM



ALL IN ONE

Shows an overview of the channel status on one screen. It shows spectrum, services, measurements, alarms, Pids. All integrated in a single view for quick analysis



POLLING

Round-robin measuring of an user-defined number of channels



FULL SPECTRUM (OPT.)

Represents realtime spectrum of the monitorized channel with detailed measurements, mask, max. and min. hold features



BITRATES

MPEG Measurements

Allows us to see in detail the bitrate value for the selected channel, as well as all the services bitrates of all the PLPs of the channel

Electrical Characteristics

Standards
A/300 (ATSC 3.0)
A/53 (ATSC 1.0)
Inputs
RF: 1/4 x 50 Ω N connector
(return loss>14dB)
RF Input Frequency:
47MHz to 1GHz
SYNC: 1 x 1PPS BNC 50 Ω
10Mhz BNC 50 Ω
ASI: 1/4 x BNC 75Ω.
IP: 2 x GE RJ45 (opt.)
Outputs
ASI: 1/2 x BNC 75Ω
A/V: 1 x HDMI

SPECIFICATIONS

20 N	MHz Spectrum
Pov	ver, C/N, Shoulders
MEF	R, PreBER, PostBER (ATSC1.0)
MER	R, PreLDPCBER, PreBCHBER (ATSC3.0
Acc	uracy:+-2dB
Res	olution 0.1dB
Poll	ing feature
Fred	quency Offset (opt.)
Cor	stellationn (opt.)
Ech	oes
Full	Spectrum (opt.)

Service Bitrate	Input 100 - 240 VAC 50-60Hz 1.
Table Bitrate	
Alarms log analysis	Mechanical characteristics
SFN Drift for ATSC3.0 (opt.)	1U 19" rackable unit
Freg. offset fot ATSC3.0 (opt.)	Size: 482mm W x 348mm D x 4
Audio Levels	Working temperature: 0 a 40 °C
System and LLS tables (ATSC3.0)	Storage temperature.: 0 a 50 °C
PSI/SI tables (ATSC1.0)	
	Interfaces
STLTP Measurements (opt.)	1 x USB 2.0
IP Bitrate	1 x Ethernet RJ45
Max. and Min Inter-Packet time	LCD Graphic display
Sequence Errors/s	HDMI
Sequence Valid/s	
UDP valid/s	Control protocols
SFN Network Delay	HTML and SNMP

GSERTEL