RCS Monitoring Family

MONITORING SYSTEM FOR DVB-S/S2/S2X NETWORKS
TO ANALYZE AND ENSURE THE QUALITY OF THE NETWORK

DVB S
DVB S2
DVB S2X

TWO PROBES TO COVER ALL NEEDS:

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

PROFESSIONAL MONITORING:

RF ANALYSIS
- Real Time spectrum
- Three ways of operation: channel analysis, multiple channel polling, and spectrum analysis
- Signal quality measurements: Power, PER, MER, CBER, VBER (DVB-S), LM, LDPCBER , BCHBER (DVB-S2/S2X)
- Alarm log (real time) and representation (time evolution)

TS ANALYSIS
- Detailed bitrate of all services
- Level1, 2 priority error analysis as TR 101 290 recommendations
- Table repetition and quality analysis
- Services treeview
- Video streaming up to 5 simultaneous destinations
- Loudness metering according EBU Tech Doc 3341
- PLS support (DVB-S2)
- ISI support (DVB-S2)

AND MUCH MORE...
- Video thumbnails
- Local display of measurements and alarms
- HDMI audio/video output
- Ethernet connectivity
- HTML5 control application
- LNB powering supported (per RF input configurable)
- Supports DiSEqC commands to manage up to 4 satellites (per RF input configurable)
- Full integration with third parties' NMS

OPTIONAL FEATURES

- ✓ IP (TSoIP) INPUT
- ✓ Redundant IP INPUT
- ✓ Full historical measurements with alarms analysis
- ✓ Advanced Measurements (Full Spectrum, Constellation)
- ✓ Extended TS Analysis (Level 3 priority errors)
- ✓ TS Recording (Manual, alarm triggered, and scheduled)
- ✓ Live Streaming
- ✓ Service template monitoring
- ✓ Bit rate monitoring
- ✓ Black and Freeze Detection.
- ✓ Audio Silence Detection

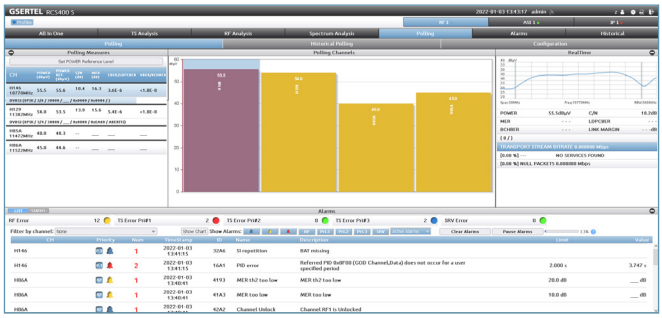
GSERTEL

RCS 100

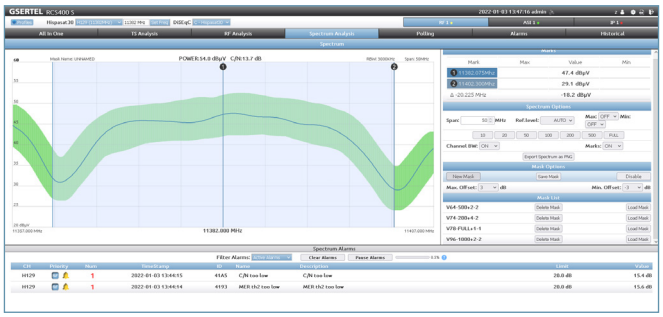
ADVANCED REMOTE MONITORING SYSTEM
FOR DVB-S/S2/S2X

MANAGEMENT SYSTEM

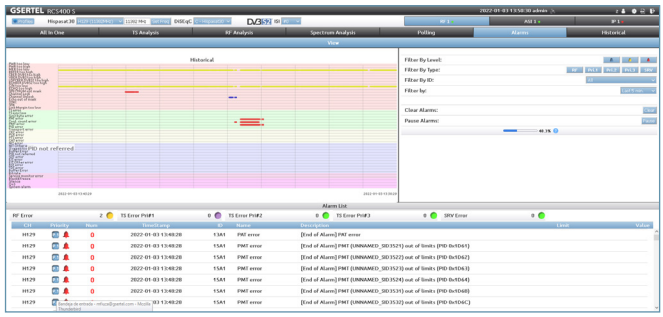
ALL IN ONE
Shows an overview of the channel status on one screen. It shows spectrum, services, measurements, alarms, PID. All integrated in a single view for quick analysis



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



ALARMS
Represents the alarms counter during an user-selected period of time

SPECIFICATIONS

Standards
ETSI EN 300 421 (DVB-S)
ETSI EN 302 307 (DVB-S2)

Inputs
RCS100:
RF: 1 x 75 Ω F connector
TS: 1 x ASI IN BNC 75Ω
RCS400:
RF: 4 x 75 Ω F connector
TS: 4 x ASI IN BNC 75Ω
RF Input Frequency:
250MHz to 2400MHz
IP: 2 x GE RJ45 (TSoIP) (opt.)

Outputs
A/V: 1 x HDMI
RCS100:
TS: 1 x ASI OUT BNC 75Ω
RCS400:
TS: 2 x ASI OUT BNC 75Ω

Modulations DVB-S2/S2X
QPSK, 8PSK, 16APSK, 32APSK

RF Measurements
50 MHz Spectrum
Power, C/N, MER
CBER, VBER (DVB-S)
Link Margin, BCHBER, LDPCBER (DVB-S2)
Constellationn (opt.)
Full Spectrum (opt.)

Powering
Preamp powering
LNB powering
DiSEqC

IP flow measurements (opt.)
Packet arrival max. & min
IP & UDP payload bitrate
Media loss rate
Loss IP frames
Corrected IP frames

TS ANALYSIS
Level 1,2 y 3 priority errors (level 3 opt.)
TR 101 290
Alarms log analysis
PCR Jitter (opt.)
RDS Analysis
Scramble Status
Electronic Program Guide
Loudness metering (EBU Tech Doc 3341) (opt.)
Black and Freeze detection (opt.)
Audio Silence detection (opt.)
QoS measurements and alarms (opt.)
PLS and ISI support (DVB-S2)

Electrical Characteristics
Input 100 - 240 VAC 50-60Hz 1.4A

Interfaces
1 x USB 2.0
1 x Ethernet RJ45
LCD Graphic display
HDMI

Control protocols
HTML and SNMP

Mechanical characteristics
1U 19” rackable unit
Size: 482mm W x 348mm D x 41mm H
Working temperature: 0 a 40 °C
Storage temperature.: 0 a 50 °C

V 2.0

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