

RCS 100

DVB-T

DVB-T2

MONITORING SYSTEM FOR DVB-T/T2 NETWORKS TO ANALYZE AND ENSURE THE QUALITY OF THE NETWORK



PROFESSIONAL MONITORING:

RF ANALYSIS

- Real Time spectrum
- Two ways of operation: channel analysis or multiple channel polling
- Signal quality measurements: Power, C/N, BER, MER, shoulders
- Alarm log (real time) and representation (time evolution)

TS ANALYSIS

- Bitrate
- Level1, 2 priority error analysis as TR 101 290 recommendations
- Table repetition and quality analysis
- Services treeview

AND MUCH MORE...

- Video thumbnails
- Local display of measurements and alarms
- 1 RF input, 1 ASI input, 1 ASI output, and HDMI audio/video output
- Ethernet connectivity
- 1 PPS & 10 MHz synchronization inputs
- HTML5 control application
- SNMP v2.0 alarms

OPTIONAL FEATURES

- ✓ IP (TSoIP) INPUT
- ✓ Redundant IP INPUT
- ✓ Additional DVB standard
- ✓ Full historical measurements with alarms analysis
- ✓ Advanced Measurements
(Full Spectrum, Echoes DVB-T, Constellation, SFN Drift DVB-T)
- ✓ SFN Drift DVB-T2
- ✓ Frequency offset
- ✓ Extended TS Analysis
(Level 3 priority errors, PCR Jitter, Network Delay)
- ✓ T2-MI Analysis
- ✓ TS Recording
- ✓ Live Streaming

GSERTEL

RCS 100

ADVANCED REMOTE MONITORING SYSTEM
FOR DVB-T/T2

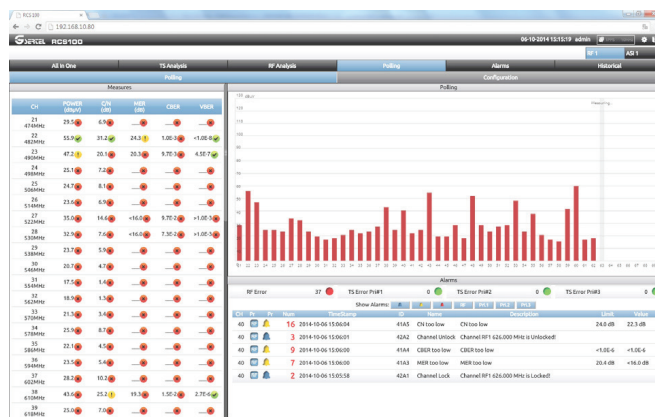


MANAGEMENT SYSTEM



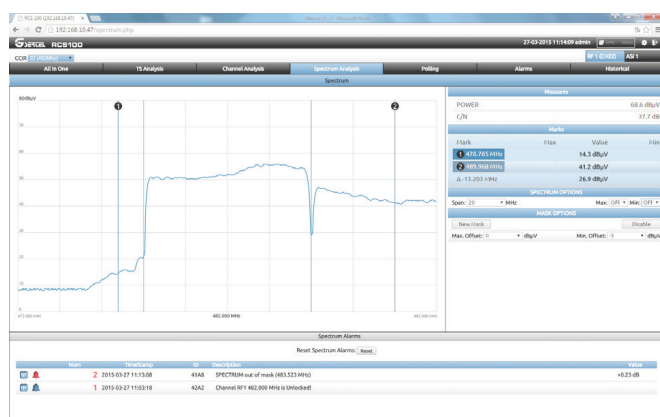
ALL IN ONE

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



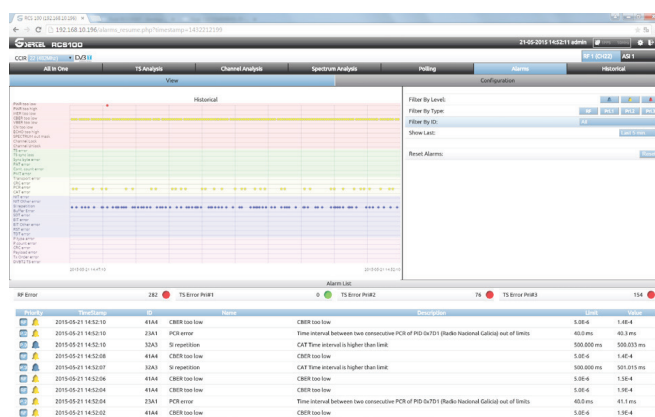
POLLING

Continuous measuring of an user-defined number of channels



FULL SPECTRUM (OPT.)

Represents realtime spectrum of the monitored 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 300 744 (DVB-T)
ETSI EN 302 755 (DVB-T2)

Inputs

RF: 1 x 50 Ω N connector
RF Input Frequency:
47MHz to 1GHz
SYNC: 1 x 1PPS BNC 50 Ω
10MHz BNC 50 Ω
TS: 1 x ASI IN BNC 75Ω
IP: 2 x GE RJ45 (TSoIP) (opt.)

Outputs

TS: 1 x ASI OUT BNC 75Ω
A/V: 1 x HDMI

RF Measurements

20 MHz Spectrum
Power, C/N, Shoulders
MER, CBER, VBER
Link Margin, BCHBER, LDPCBER
Frequency Offset (opt.)
Constellation (opt.)
Echoes (opt.)
Full Spectrum (opt.)

MPEG Measuremenst

Level 1,2 y 3 priority errors (level 3 opt.) TR 101 290
Alarms log analysis
PCR Jitter (opt.)
Network delay (opt.)
MIP maximum network delay (opt.)
T2-MI Analysis (opt.)
SFN Drift DVB-T(opt.) and SFN Drift DVB-T2 (opt.)

IP flow measurements (opt.)

Packet arrival max. & min
IP & UDP payload bitrate
Media loss rate
Loss IP frames
Corrected IP frames

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

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