

RCS 100

ISDB-T

MONITORING SYSTEM FOR ISDB-T 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, MER, Pre-BER (by layer), Post-BER (by layer), Echoes, Shoulders
- Alarm log (real time) and representation (time evolution)

TS ANALYSIS

- Bitrate
- Level 1, 2 priority error analysis
- Table repetition and quality analysis
- Services treeview

AND MUCH MORE...

- Video thumbnails
- 1 RF input, 1 ASI input, 1 ASI output, and HDMI audio/video output
- Ethernet connectivity
- Full historial measurements with alarm analysis
- 1 PPS & 10 MHz synchronization inputs
- HTML5 control application
- SNMP v2.0 alarms

OPTIONAL FEATURES

- ✓ IP (TSoIP) INPUT with VLAN and IGMP support
- ✓ Redundant IP INPUT
- ✓ Advanced Measurements
(Full Spectrum, Constellation, Frequency offset)
- ✓ Extended TS Analysis
(Level 3 priority errors, PCR Jitter, Network Delay)
- ✓ BTS Analysis
- ✓ TS Recording
(Manual and alarm triggered)
- ✓ Live Streaming
- ✓ PID monitoring
- ✓ Bit rate monitoring

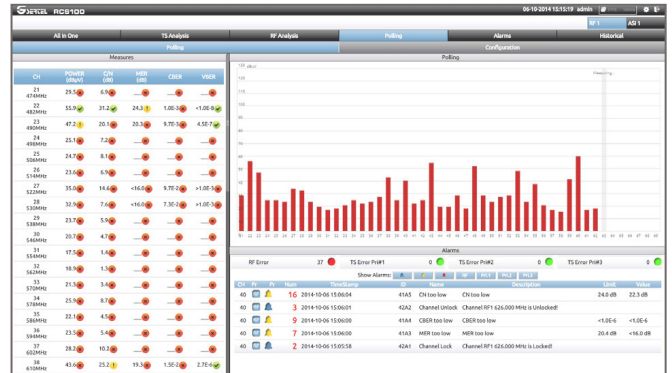
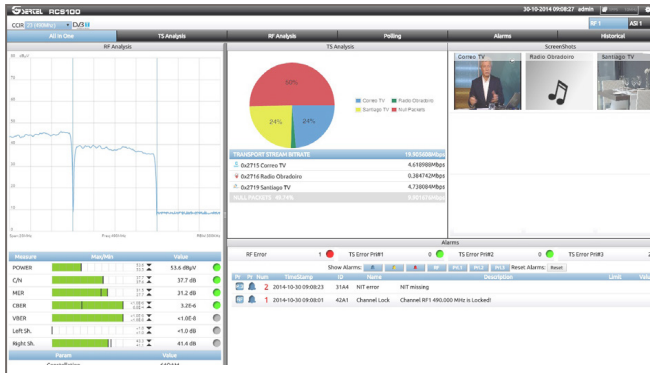
GSERTEL

RCS 100

ADVANCED REMOTE MONITORING SYSTEM FOR ISDB-T



MANAGEMENT SYSTEM

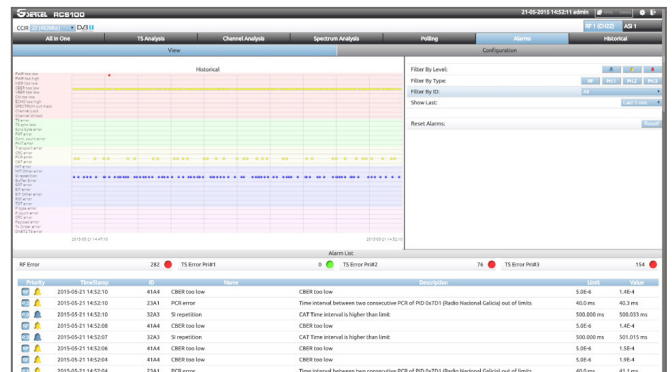
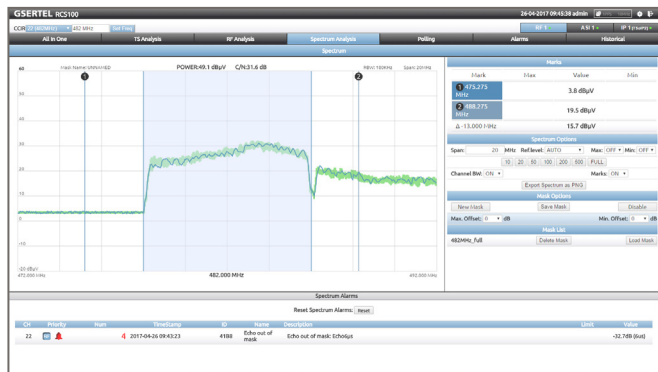


ALL IN ONE

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

ARIB STD-B31 (ISDB-T/Tb)

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
 Pre-BER (by layer) and Post-BER (by layer)
 Frequency Offset (opt.)
 Constellationn (opt.)
 Echoes
 Full Spectrum (opt.)

MPEG Measurement

Level 1,2 y 3 priority errors (level 3 opt.)
 Alarms log analysis
 PCR Jitter (opt.)
 Network delay (opt.)
 MIP maximum network delay (opt.)
 BTS Analysis

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