

DVB-T/H SYSTEM MONITORING

Transmitters, Repeaters, Gap Fillers, Field analyzer applications



RF DEMODULATION QUALITY

Broadband agile front end (47-860MHz)
High sensitive receiver or high power input
High performances (> 40dB MER)

KEY SPECIFICATIONS

QPSK, 16 and 64 QAM
6, 7, 8 Mhz Bandwidth
Frequency off-set
FFT 2K, 4K and 8K
Hierarchical HP-HP

KEY FEATURES

ETS 300 - 744 and TR 101 290 Compliant
ASI IN OUT
IF Input
Two ways input polling
Video monitor out
WEB SNMP complete remote supervisor

LOCAL MEASURES

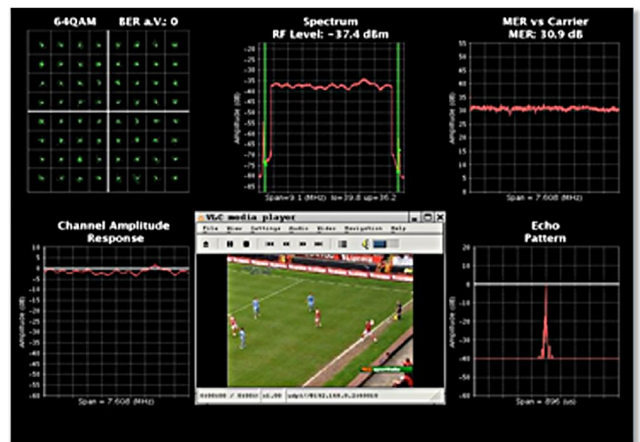
RX CH - Frequency offset - RF RX Level
Field Strength - C/N - MER - BER - FFT - BW
Constellation - Code Rate HP LP - Guard Interval
Alpha - MPEG2 TS Analysis priority 1 and 2



COMPLETE SET OF DVB-T/H ANALYSIS
RF Measure
Modulation and TPS parameter analysis
MPEG-2/MPEG-4 Analysis

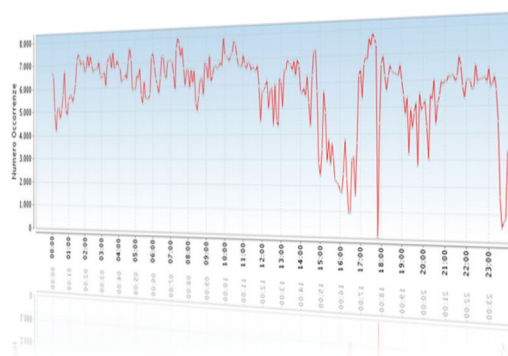
GRAFICAL PRESENTATION

Constellation (wide or details)
Spectrum and shoulders measures
MER versus carriers, Echo pattern
Channel amplitude response



REMOTE SYSTEM

Complete remote control SNMP WEB
All parameters are remotable
Possibility of alarm threshold on measures
History of alarms



DVB-T Monitoring Probe

GENERAL SPECIFICATION

- COFDM front-end full ETSI EN 300 744 compliant
- Frequency tunable upon TV frequency bands III, IV-V
- 6, 7, 8 MHz channel bandwidth
- FFT size: 2K and 8K - Hierarchical modes HP and LP
- MPEG2 - TS provided on 1 ASI outputs at 270 Mb/s rate, according to EN 50083-9 standard
- RF demodulation quality measurements
- MPEG2-TS analysis according to TR 101 290
- Internal MPEG-2 de-multiplexer-decoder-PAL, RGB video, and audio outputs
- Local Access to configuration data and analysis (result) from the front panel
- Remote control through using HTTP, SNMP protocols
- The embedded software can be remotely upgraded
- Alarm thresholds can be set for each measurement analysis parameter
- 19" - 1U cabinet - 100/240 V - 47/60 Hz power supply

TRANSPORT STREAM

- ASI interface on back panel input BNC connector

PERFORMANCES

- Saw filter IF embedded
- Adjacent channel rejection : > 50 dB
- Mer measurement (RF) : > 40 dB

MEASUREMENTS AND GRAPHICAL RAPPRESENTATIONS

- Constellation
- Spectrum
- Signal level
- MER RMS
- MER vs Carrier
- Echo pattern
- BER a V.
- Channel amplitude response
- Frequency offset
- TPS
- Spectral inversion

PHYSICAL SPECIFICATION

- Power Supply: 100 - 240 VAC, 47 - 60 Hz
- Consumption: 140 W
- Cabinet: 19" rack, 1U, 500mm depth
- Guaranteed specifications: +5 to + 45° C
- Operation temperature: 0 to + 50° C

RF

- RF input connector type N
- return loss: > 20dB
- Full compliant to ETS 300 - 744 specification
- Signal level: -80 to -25 dBm or - 0 to +10 dBm (depending on models)
- Frequency tunable within VHF III, and UHF IV-V TV frequency bands
- Offset selectable 0Mhz, +/- 1/6 Mhz, +/- 2/6 Mhz, +/-3/6Mhz

IF

- Frequency 36.150 Mhz
- IF input connector type BNC
- Return loss:> 20dB
- Input signal level: -6 to +6 dBm
- IF output connector type BNC
- Output signal level 0 dBm

FFT

- bandwidth selectable 6, 7, 8 MHz
- FFT size: 2K and 8K
- Guard interval: 1/4, 1/8, 1/16, 1/32
- Code rate: 1/2, 2/3, 3/4, 5/6, 7/8
- Modulation: QPSK, 16QAM, 64QAM
- Hierarchical modes
- Access to all demodulation parameters is available either on the front panel or remotely

REMOTE CONTROL

- Ethernet TCP/IP proxy board: full remote control is available using HTTP, SNMP protocols