



DVBC/C2

EDGEPROBE ADVANCED







EDGEPROBE ADVANCED DVB-C/C2 IS A DIGITAL CABLE STANDALONE ANALYZER USED FOR CONTINUOUS MONITORING OF CRITICAL RF. MPEG-2 TS OR C2 FRAME PARAMETERS AND HEALTH DIAGNOSIS OF CABLE NETWORKS.

Combined with a Network Monitoring System or not, the EdgeProbe Advanced provides a powerful network alert & diagnosis tool allowing Cable network operators to monitor global trends and anticipate potential failures.

EdgeProbe Advanced is able to monitor DVB-C and DVB-C2 signals at transmitter outputs, through its RF inputs (up to 4 in 1 U), as well as at modulator input and at Head-End/distribution links, through its ASI and IP inputs.

EdgeProbe Advanced can continuously log all events & measurement values in an archive file, and can send **SNMP** traps if selected parameters' values exceed defined thresholds. For troubleshooting, a low bandwidth remote Web GUI gives access to all monitored parameters, from RF to baseband.

EdgeProbe Advanced provides monitoring of the signal at different levels:

- RF transmission: measures key RF signal parameters (Level, MER, BER) and indicates the modulation parameters.
- MPEG-2 TS: checks the ETSI TR 101 290 (Priority 1, 2 & 3) conformance and provides optional Quality of Service indicators (Service Availability, Service Degradation).

The Service Plan provides the means to check the description of your multiplexes and verify your regional services.

An additional Power Supply can be installed on the equipment in order to ensure the power redundancy.

APPLICATIONS

- 24/7 Monitoring and Maintenance of both Head-End and TX sites
- Multi-channel monitoring
- Generation of Service Availability reports for Service Level Agreements
- Rebroadcasting receiver: RF to ASI or IP
- · Live transmission recorder

- **△ STAND ALONE ANALYZER (24/7)**
- ☑ MULTI CHANNELS MONITORING
- ∠ MULTI STANDARDS MONITORING
- ☑ REAL-TIME MONITORING
- **☑** RF. TS ANALYSIS

CHARACTERISTICS

1, 2 or 4x [RF in, ASI in/out, IP Data in/out (VLAN support)] in 1 RU

1PPS (internal/external), 10MHz

1 or 2x IP Control for low bandwidth remote Web GUI

EdgeProbe Advanced models: DVB-T/T2/T2 Lite, DVB-C/C2, ISDB-T/Tb

RF accurate measurements: signal level, MER, BER

Multiplex & Service Plan check

ETSI TS 101 290 validation: Priority 1, 2, 3 and QoS SAE/SDE

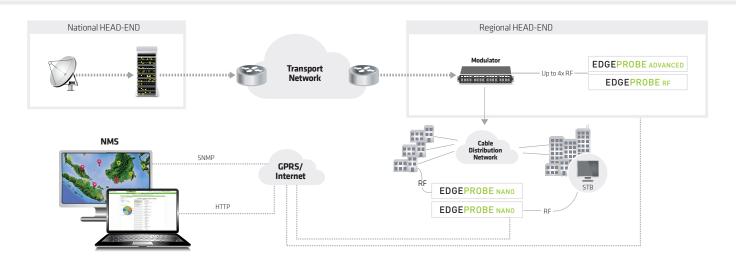
TS over ASI out or IP forward for video QoE monitoring

1, 2 or 4x 32 GB storage for TS record and 6 months logs & trends

Internal GNSS receiver (GPS, GLONASS), dual Power Supply

KEY BENEFITS

- Standalone, easy to use and configure, fast deployment, SNMP compatible
- Increase customer satisfaction by detecting & preventing CATV network degradations before your customers do
- Reduce TX sites maintenance cost by anticipating and identifying issues
- Remotely accessible, compatible with low bandwidth control networks (GPRS/3G)
- · Low power consumption 20W





INTERFACES

Control	Up to 2x Gigabit Ethernet for Web GUI, SNMP-V2C		
RF Standard Frequency range Sensitivity Channel bandwidth Symbol rate Modulation	1 x RF input (N-type female - 50 Ω) DVB-C, DVB-C2 40 to 1000 MHz -80 to -5 dBm 6		
TS	Up to 4x ASI in/out (BNC-type female - 75 Ω) Up to 4x Gigabit Ethernet for Data in/out (VLAN support)		
GNSS Time Reference	1x GNSS antenna input (SMA-type - 50 Ω) HW option 1x 1PPS input (BNC-type female - 50 Ω) 1x 10MHz input (BNC-type female - 50 Ω)		

MONITORING FEATURES

RF Monitor Demodulation status Signal level MER BER (DVB-C) BER (DVB-C2) Modulation parameters	Lock / Unlock -90 to -5 dBm 0 to 40 dB Post-Viterbi, Post-RS PER Pre/Post-LDPC, Post-BCH L1 part2 signaling in DVB-C2	
TS Monitor Base	ETSI TR 101 290 Priority 1 and 2	
TS Monitor Advanced	ETSI TR 101 290 Priority 3	
QoS Monitor	SAE (Service Avaibility Error) SDE (Service Degradation Error)	
Service Plan	Verify regional services Service & PID bitrates, Scrambling, Service & PID presence	
Scanning	Monitor sequentially multiple channel frequencies or PLPs over 1RF input	
Extended Memory	Up to 4x 32 GB of internal storage: event logs up to 6 months, trends up to 6 months, TS recording	



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Channel Impulse Response monitoring view

PHYSICAL

Height: 45 mm / 1.7 in, Width: 440 mm / 17.3 in, Depth: 300 mm / 11.8 in Format: 1 RU, width 19", Power supply: 100-240 VAC +/-10% **Power consumption: 20W, Redundant Power Supply** (HW option)

ENVIRONMENT

 $\begin{array}{ll} \mbox{Operating temperature} & -20 \mbox{ to } 55^{\circ}\mbox{C} \mbox{/ -4 to } 131\,^{\circ}\mbox{F} \\ \mbox{Storage temperature} & -20 \mbox{ to } 70^{\circ}\mbox{C} \mbox{/ -4 to } 158^{\circ}\mbox{F} \\ \mbox{Humidity} & 0 \mbox{ to } 95\%, \mbox{ non condensing} \\ \end{array}$

ORDERING CODES

EdgeProbe Advanced	DVB-C/C2 Advanced Monitoring Probe		
Included	RF to ASI, RF/ASI to IP, RF monitoring, VLAN		
SW options	Scanning TS Monitor Base TS Monitor Advanced QoS Monitor Service Plan Extended Memory Dual ADV	Multiple RF channels sequential monitoring over 1 RF input ETR290 Priority 1, 2 monitoring ETR290 Priority 3 monitoring SAE, SDE monitoring Multiplex Service/PID monitoring Up to 4x 32 GB storage: trends, logs, TS record Two units: 2x (RF + ASI + IP Data) in 1 RU	
HW options	Quad ADV Dual Power Supply Internal GNSS Tropicalization	Four units: 4x (RF + ASI + IP Data) in 1 RU 100-240 VAC redundant power supply Internal GNSS receiver (GPS, GLONASS) for internal 1PPS generation Preserve the HW from corrosion	

sales@test-tree.com www.test-tree.com



