



EDGEPROBE NANO



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

EdgeProbe Nano is able to monitor **DVB-T** and **DVB-T2** signals at transmitter outputs through its **RF input**. It can continuously logs 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 Nano provides monitoring of the signal at different levels:

- RF transmission: measures key RF signal parameters (Level, MER, SNR, BER) and indicates the modulation parameters as well as the Channel Impulse Response (CIR).
- **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**.

The **Scanning** provides a powerful tool for **sequential monitoring** of **multiple channels** (frequencies/PLPs) with a single probe.

With its **ASI output** it can also be used as a powerful rebroadcasting receiver, while the **IP forward** is the gateway from RF to IP networks.

NEW Coupled with a **TRANSBOX** device, EdgeProbe Nano provides **service compression** (transcoding) and **streaming** to third-party analysis systems for **confidence monitoring**.

CHARACTERISTICS

1x RF in, 1x ASI out, 1x IP Control/Data in/out (VLAN support)

DVB-T, DVB-T2, DVB-T2 Lite support

RF accurate measurements: Level, SNR, MER, BER

Channel Impulse Response monitoring

Multiplex & Service Plan check

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

MPEG-2 TS over ASI out or IP forward for video QoE monitoring

Service Compression and Streaming via TRANSBOX

32 GB storage for MPEG-2 TS record and 6 months logs θ trends

EDGEPROBE NANO IS THE MOST TINY AND COMPACT RF PROBE WITH NO COMPROMISE ON OUALITY!

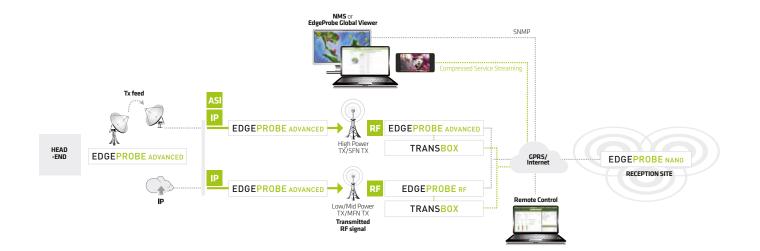


APPLICATIONS

- Network operators:
- automate the tests of new transmitter
- temporary monitoring/investigation tool
- rebroadcasting receiver: RF to ASI or IP
- Broadcasters: off-air monitoring probe to validate the on-air content
- TV/STB producers: automated tests against a professional receiver
- Labs: easy & simple access to live DT sources via RF

BENEFITS

- Small, Silent & Magnetized: can be installed anywhere
- Easy to use and configure
- Standalone: no need for PC
- Enables SNMP test automation
- Low power consumption 8W





INTERFACES

Control/Data	1x Gigabit Ethernet for Web GUI, SNMP-V2C and IP Data in/out (VLAN support)
RF Standard Frequency range Sensitivity Channel bandwidth	1x RF input (N-type female - 50 Ω) DVB-T, DVB-T2 (including 1.3.1), DVB-T2 Lite 40 to 1000 MHz -80 to -5 dBm 1.7, 5, 6, 7 & 8 MHz
MPEG-2 TS	1x ASI output (BNC-type female - 75 Ω)

MONITORING FEATURES

RF	М	on	itor	
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Demodulation status Lock / Unlock

Signal level -90 to -5 dBm ±1 dBm, typically ±0.5 dBm,

resolution 0.2 dBm

MER 0 to 40 dB (0 to 36 dB: ±1 dB, 36 to 40 dB: ±2 dB)

SNR 0 to 40 dB ±1 dB

BER (DVB-T) Pre/Post-Viterbi, Post-RS
BER (DVB-T2) Pre/Post-LDPC, Post-BCH

Modulation parameters L1 signaling in DVB-T2, TPS in DVB-T

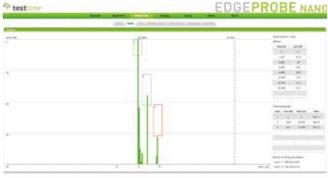
Channel Impulse Response (CIR)

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 over 1 RF input	
Extended Memory	32 GB of internal storage for: Event logs up to 6 months Trends up to 6 months TS recording	
TRANSBOX	Combined with a TRANSBOX device, EdgeProbe Nano provides service compression (transcoding) and streaming to third-party analysis systems	





DVB-T2 RF Channel monitoring view



Channel Impulse Response monitoring view

PHYSICAL

Height: 30 mm / 1.2 in, Width: 144 mm / 5.6 in, Depth: 137 mm / 5.3 in Power supply: 12 VDC, 100-240 VAC to 12 VDC adapter provided

Power consumption: 8W

ENVIRONMENT

Operating temperature Storage temperature Humidity

-20 to 55°C / -4 to 131°F -20°C to 70°C / -4°F to 158°F 0 to 95%, non condensing

ORDERING CODES

EdgeProbe Nano	DVB-T/T2 Nano Monitoring Probe	
Included	RF to ASI, RF to IP, RF + CIR monitoring, VLAN	
SW options	Scanning TS Monitor Base TS Monitor Advanced QoS Monitor Service Plan Extended Memory	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 32 GB storage: trends, logs, TS record
HW option	TRANSBOX	Stream1 or 2 compressed service(s)

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