EDGEPROBE NANO

ISDB-T/Tb

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 **ISDB-T/Tb** 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 (**TMCC, Layers A/B/C**) as well as the **Channel Impulse Response** (CIR).
• **Transport Stream**: checks the ETSI TR 101 290 (Priority 1, 2 & 3) conformance and provides optional Quality of Service indicators (Service Availability, Service Degradation).
• **BTS**: IIP and TMCC packets monitoring.
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) 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)
ISDB-T/Tb support
RF accurate measurements: Level, SNR, MER, BER and modulation parameters per Layer A/B/C
Channel Impulse Response monitoring
Multiplex & Service Plan check
ETSI TS 101 290 validation: Priority 1, 2, 3 and QoS SAE/SDE
BTS monitoring: IIP, TMCC packets monitoring
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 & trends

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


144 mm

magnetized

137 mm

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 DTV sources via RF

BENEFITS

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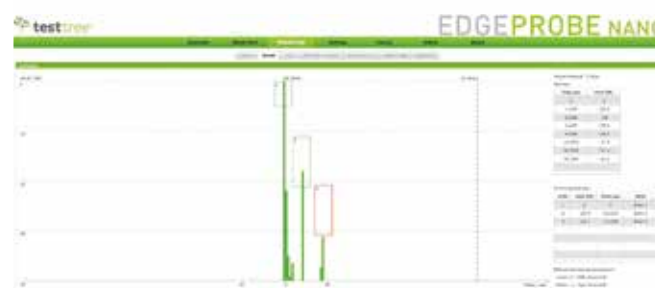• Low power consumption **8W**
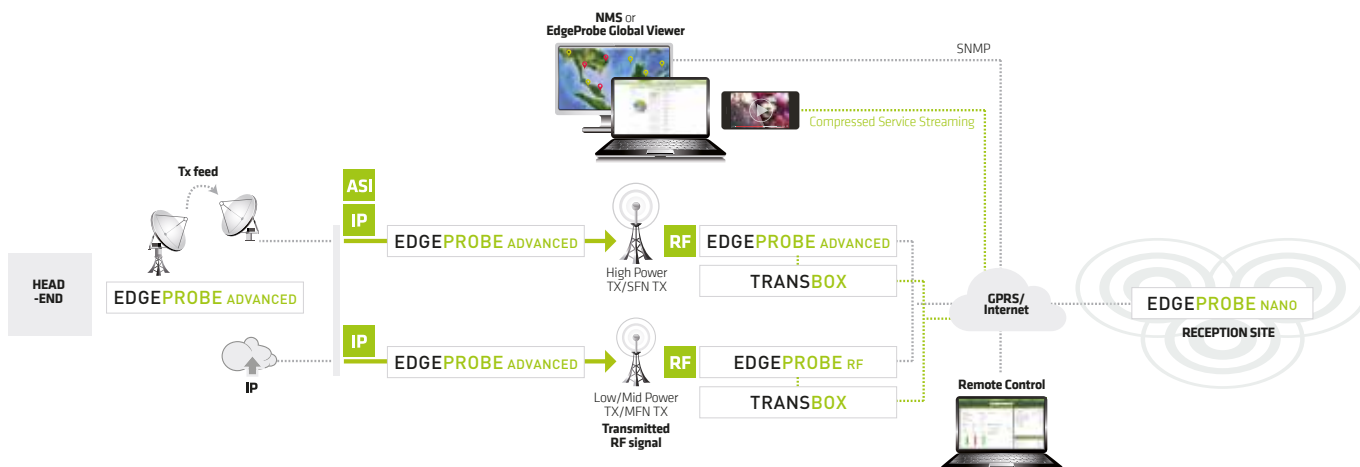
INTERFACES

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 (F-type female - 75 Ω) ISDB-T/Tb 40 to 1000 MHz -80 to -5 dBm 6, 7 & 8 MHz
Transport Stream (TS)	1x ASI output (BNC-type female - 75 Ω)

MONITORING FEATURES

RF Monitor Demodulation status Signal level MER SNR BER Modulation parameters Channel Impulse Response (CIR)	Lock / Unlock -90 to -5 dBm 0 to 40 dB 0 to 40 dB Post-Viterbi, Post-RS per Layer A/B/C TMCC, Layer A/B/C
BTS Monitor	IPP, TMCC packets monitoring
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

ISDB-T 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	-20 to 55°C / -4 to 131 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing

ORDERING CODES

EdgeProbe Nano	**ISDB-T/Tb Nano Monitoring Probe**	
Included	**RF to ASI, RF to IP, RF + CIR monitoring, VLAN**	
SW options	**Scanning**	Multiple RF channels sequential monitoring over 1 RF input
	TS Monitor Base	ETR290 Priority 1, 2 monitoring
	TS Monitor Advanced	ETR290 Priority 3 monitoring
	QoS Monitor	SAE, SDE monitoring
	Service Plan	Multiplex Service/PID monitoring
	Extended Memory	32 GB storage: trends, logs, TS record
HW option	**TRANSBOX**	Stream 1 or 2 compressed service(s)

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