

EDGEPROBE™ RF DVB-T/T2 RF Monitoring Probe

EDGEPROBE RF is the ideal & most cost effective high-quality solution for controlling remotely the signal transmission of your low/mid power TX & relay sites that are sometime difficult to reach.

Combined with a Network Monitoring System or not, the EdgeProbe RF provides a powerful network alerts & diagnosis tool allowing DTTV network operators to anticipate potential failures as well as providing trends & statistics on the services.

EdgeProbe RF is able to continuously monitor **DVB-T** and **DVB-T2** signals at transmitter outputs through its **RF input**. It continuously logs all measurements values in an archivefile can send **SNMP** traps if selected parameters exceed defined thresholds. For troubleshooting, a low bandwidth WEB remote access allows analysis of all parameters from RF to baseband.

EdgeProbe RF provides monitoring of the signal at different levels:

- Transmission : **RF Monitor** check the status of the transmitter.
- Transport Stream: **MPEG-TS Monitor** checks the conformance of the MPEG TS to ETR 101 290 (1, 2 & 3) and provides Quality of Service indicators (SAE/SDE).
- 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 monitoring **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.

CHARACTERISTICS

Standalone unit
1RF-in, 1 ASI Out & 1 IP-data in 1 U
DVB-T/DVB-T2 1.3.1 & below standard support
RF key parameters high accuracy measurements
Outstanding selectivity
Multiplexe description & Service Plan check
TR 101 290 Level 1, 2 and 3 + QoS validation
DVB-ASI output & IP output for video QoE monitoring
Automated & Secure Deployment for small to large networks



APPLICATIONS

- 24/7 Monitoring and Maintenance of DVB-T/T2 Live transmission network
- Cost effective monitoring of transmitters and relay sites
- Generation of Service Availability reports for Service Level Agreement
- Rebroadcasting receiver
- Live transmission recorder

BENEFITS

- Remote & real-time monitoring of the health of your DTTV network
- **Increase your value proposition to your customers** by providing a guaranty of SLA
- **Increase your customer's satisfaction** by detecting & correcting DTV Network degradations before your customers
- **Reduce the maintenance cost** of your TX sites by anticipating and identifying issues on your TX sites
- Compatible with low bandwidth management network (e.g. GPRS)
- Easy and fast deployment of monitoring

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INTERFACES

Control	• 1x Gigabit Ethernet for GUI, SNMP and IP forward
RF	• 1 x RF input (N-type female - 50 Ω)
Standards	DVB-T2 including 1.3.1
Frequency range	40-1000MHz
Sensitivity	-85 to -5 dBm
Channel bandwidth	1.7, 5, 6, 7 & 8 MHz
T2-MI/MPEG-TS	• 1 ASI Out (BNC-type f.- 75 Ω)

MONITORING FEATURES

RF Monitor	Measure and monitor key RF parameters and modulation parameters
Demodulation status	Lock / Unlock status of the demodulator
Signal level	-5 dBm down to -85 dBm ±1dBm, typically ±0,5dBm
MER	Up to 40dB (up to 36dB: ±1dB)
SNR	Up to 40dB ±1dB
Error rates	LDPC and BCH error rates in DVB-T2 Viterbi and Reed Salomon in DVB-T
Modulation parameters	L1 signalling in DVB-T2 TPS in DVB-T
TS Monitor Base	Monitor the MPEG-TS transport stream
	ETR 101 290 Priority 1 and 2
TS Monitor Advanced	Advanced Monitor of the MPEG-TS
	ETR 101 290 Priority 3, QoS (SAE/SDE)
Service Plan Monitoring	Verify regional services
	Monitor your Service Plan, Service & component birates, Scrambling, PID presence, SI tables decoding...
Scanning	multiple channels monitoring
	Monitor several frequencies (DVB-T) or PLPs (DVB-T2) in a configurable round-robin mode.



PHYSICAL

Height	30 mm / 1.7 in.
Width	142 mm / 5.59 in.
Depth	134 mm / 5.27 in.
Format	1 RU, width 19"
Power supply	100-240VAC
Power consumption	8W

ENVIRONMENT

Operating temperature	0 to 60°C / 0 to 140 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing

ORDERING CODES

EdgeProbe RF	DVB-T/T2 RF Monitoring Probe
Options	ASI/IP output
Scanning	Advanced scanning of multiple RF channels
TS Monitor Base	MPEG-TS Priority 1&2 Monitoring software option
TS Monitor Advanced	MPEG-TS Priority 3 Monitoring software option
Service Plan	Service Plan Monitoring software option

* Contact us for availability



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