EDGEPROBE NANO

DVB C/C2

EDGEPROBE NANO DVB-C/C2 IS A TINY DIGITAL CABLE STANDALONE ANALYZER, WITH NO COMPROMISE ON QUALITY, USED FOR CONTINUOUS MONITORING OF CRITICAL **RF**, **MPEG-2 TS** OR **C2 FRAME** PARAMETERS AND HEALTH DIAGNOSIS OF CABLE NETWORKS.

The probe is able to continuously log all measurement values in report files and to send **SNMP** traps in real-time if selected parameters' values exceed defined thresholds, thus achieving the optimal trade-off between alarm severity and alarm management time. For troubleshooting, a **Web GUI** allows **remote access** to all monitored parameters from RF to baseband.

For maximum cost-efficiency, EdgePobe Nano DVB-C/C2 is capable of monitoring multiple channels on a **round-robin** basis. One single unit can be installed at a specific location to monitor the complete set of multiplexes operated.
With its small, compact and easy to handle design, the EdgeProbe Nano DVB-C/C2 is the ideal tool for field technicians to transport in order to validate and **monitor 24/7** all points of a Digital Cable network.

EdgeProbe Nano DVB-C/C2 provides monitoring of the signal at different levels:
• **RF transmission:** measures key RF signal parameters 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**. With its **ASI** and **IP outputs**, it can also be used to forward the entire multiplex for QoE monitoring.

The **Extended Memory** option enables the probe to continuously record the logs and all measurement values on an external SD card. In addition, the MPEG-2 TS live stream can also be recorded.

APPLICATIONS

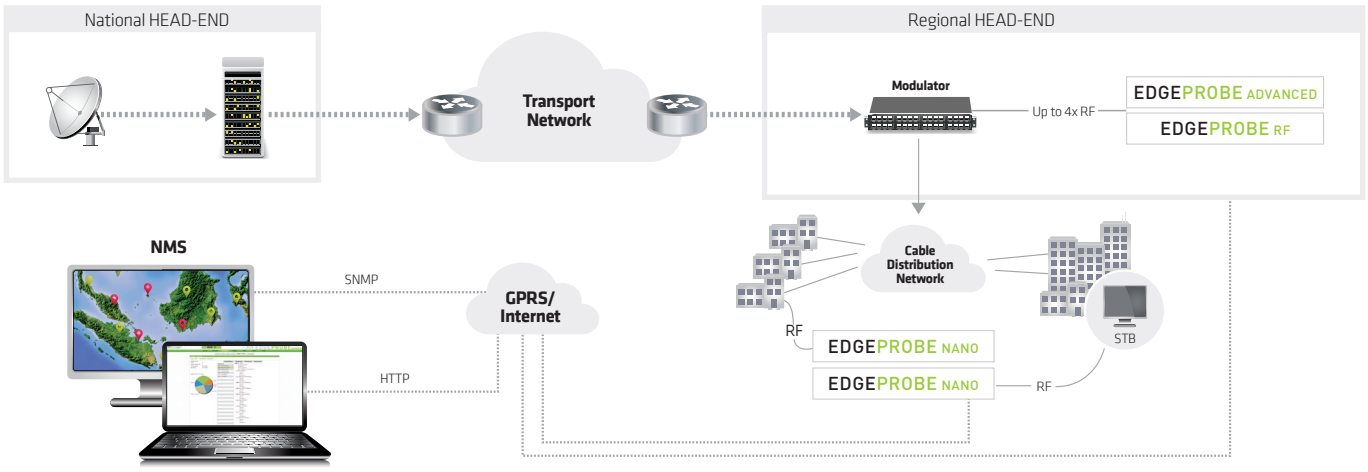
- Digital Cable network monitoring (24/7)
- Multi-channel monitoring in round-robin mode
- Generation of Service Availability reports for Service Level Agreement
- Rebroadcasting receiver: RF to ASI or IP

BENEFITS

- **Small, Silent & Magnetized**: can be installed anywhere
- Easy to use and configure
- Remote & real-time monitoring of the health of your CATV network
- Digital Cable live signals reception and ASI/IP forwarding
- Validation of reception & transmission quality
- Compatible with low bandwidth management network (e.g. GPRS)

CHARACTERISTICS

DVB-C/DVB-C2 full support
ITU-J83 Annexes A, B, C (roll-off 0.15) supported
1x RF in, 1x ASI out, 1x IP Control/Data in/out (VLAN support)
RF key parameters accurate measurements
Outstanding selectivity
Multiplex description & Service Plan check
ETSI TR 101 290 Level 1, 2 and 3 + QoS validation
MPEG-2 TS over ASI out or IP forward for video QoE monitoring
Automated & Secure Deployment for small to large networks
Standalone unit, SNMP compatible, 8W power consumption

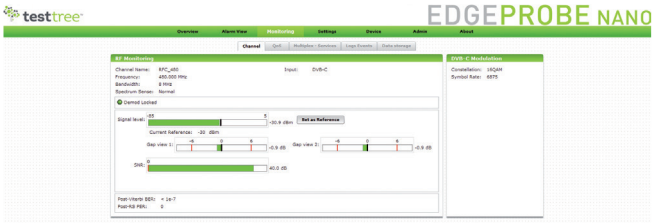


INTERFACES

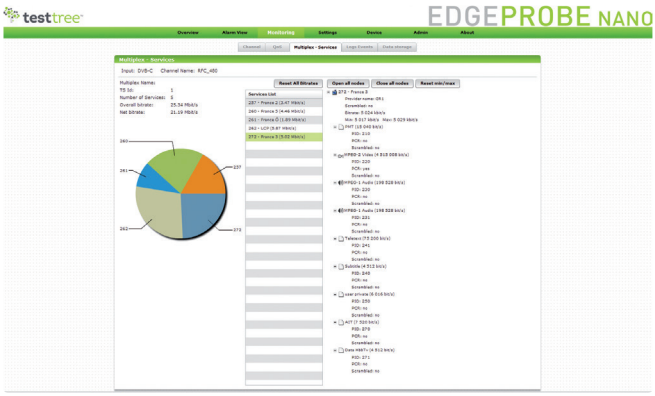
Control/Data	1x Gigabit Ethernet for Web GUI, SNMP-V2C and IP Data in/out (VLAN support)
RF	1 x RF input (F-type female - 75 Ω)
Standard	DVB-C, DVB-C2
Frequency range	40 to 1000 MHz
Sensitivity	-80 to -5 dBm
Channel bandwidth	6 & 8 MHz
Symbol rate	1.8 to 7.2 Msymbols/s
Modulation	16QAM, 64QAM, 128QAM, 256QAM, 1024QAM, 4096QAM
MPEG-2 TS	1x ASI output (BNC-type female - 75 Ω)

MONITORING FEATURES

RF Monitor	
Demodulation status	Lock / Unlock
Signal level	-90 to -5 dBm
MER	0 to 40 dB
BER (DVB-C)	Viterbi, RS
BER (DVB-C2)	LDPC, BCH
Modulation parameters	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 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



DVB-C RF Channel monitoring view



Service Plan 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	**DVB-C/C2 Nano Monitoring Probe**	
Included	**RF to ASI, RF to IP, RF monitoring, VLAN**	
SW options	**Scanning**	Multiple RF channels sequential monitoring
	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

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