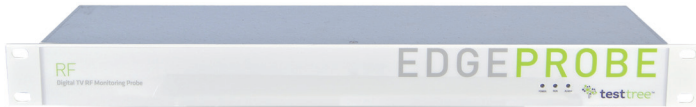


# EDGEPROBE RF

DVB-C/C2

2 in 1 Integrated Rebroadcasting: Receiver & Monitoring



**EDGEPROBE RF 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.**

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.

Combined with a **Network Monitoring System**, EdgeProbe RF DVB-C/C2 is a powerful **network diagnosis tool** allowing Cable Operators to monitor global trends and to anticipate potential failures.

For maximum cost-efficiency, EdgeProbe RF 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.

As the number of Digital Cable TV subscribers keeps increasing worldwide and Quality of Service has become a significant element to reduce subscribers churn, EdgeProbe RF DVB-C/C2 is the ideal tool to achieve cost-effective **24/7 monitoring** of the quality delivered to all points of a Digital Cable network.

EdgeProbe RF 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.

## APPLICATIONS

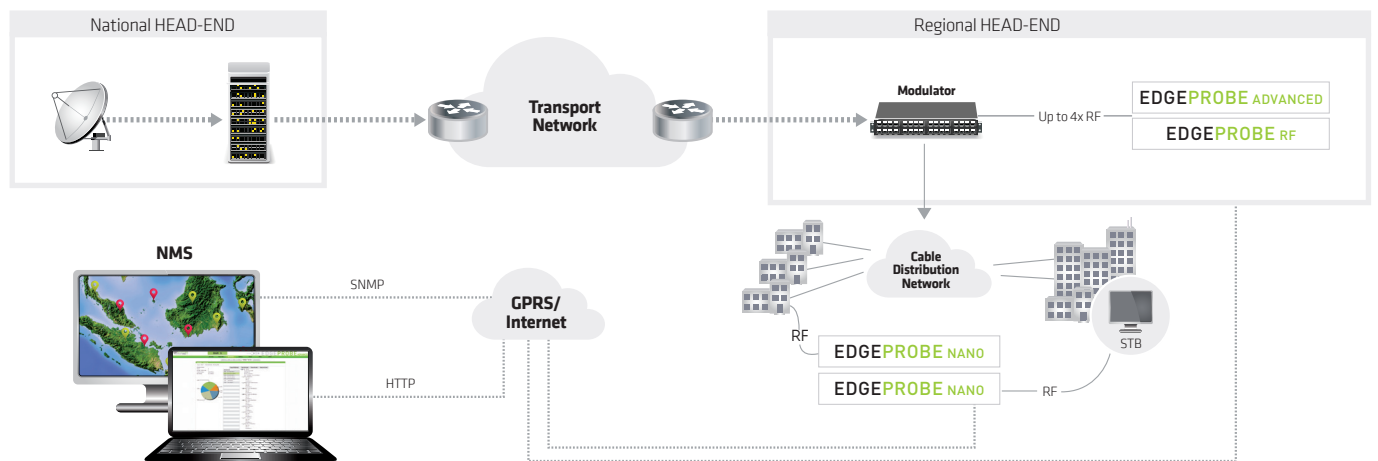
- Digital Cable network monitoring (24/7)
- Multi-channel monitoring
- Generation of Service Availability reports for Service Level Agreement
- Rebroadcasting receiver: RF to ASI or IP

## BENEFITS

- 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)
- Very low power consumption, max 8W

## 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) in 1 RU
RF key parameters accurate measurements
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

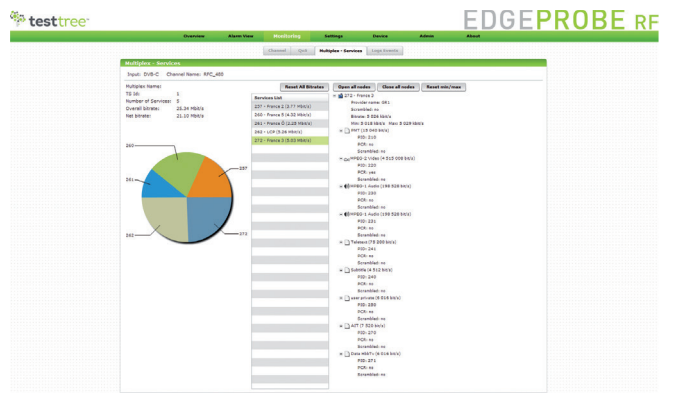
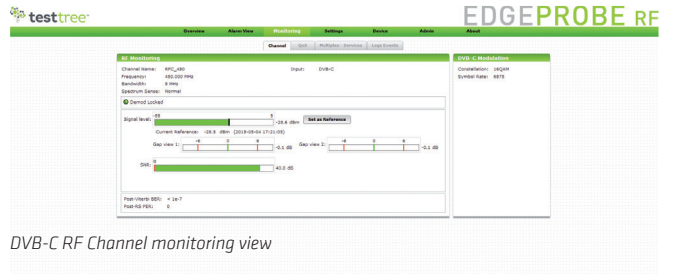


**INTERFACES**

<b>Control/Data</b>	1x Gigabit Ethernet for Web GUI, SNMP-V2C and IP Data in/out (VLAN support)
<b>RF</b>	1x RF input (N-type female - 50 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
<b>MPEG-2 TS</b>	1x ASI output (BNC-type female - 75 Ω)

**MONITORING FEATURES**

<b>RF Monitor</b>	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
<b>TS Monitor Base</b>	ETSI TR 101 290 Priority 1 and 2
<b>TS Monitor Advanced</b>	ETSI TR 101 290 Priority 3
<b>QoS Monitor</b>	SAE (Service Availability Error) SDE (Service Degradation Error)
<b>Service Plan</b>	Verify regional services Service & PID bitrates, Scrambling, Service & PID presence
<b>Scanning</b>	Monitor sequentially multiple channel frequencies over 1 RF input
<b>Extended Memory</b>	32 GB of internal storage for: · Event logs up to 6 months · Trends up to 6 months · TS recording



**PHYSICAL**

Height: 45 mm / 1.7 in, Width: 440 mm / 17.3 in, Depth: 130 mm / 5.1 in  
Format: 1 RU (19"), Power supply: 100-240 VAC ±10%  
**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 RF	DVB-C/C2 RF Monitoring Probe
Included	RF to ASI, RF to IP, RF monitoring, VLAN
SW options	<b>Scanning</b> Multiple RF channels sequential monitoring over 1 RF input <b>TS Monitor Base</b> ETR290 Priority 1, 2 monitoring <b>TS Monitor Advanced</b> ETR290 Priority 3 monitoring <b>QoS Monitor</b> SAE, SDE monitoring <b>Service Plan</b> Multiplex Service/PID monitoring <b>Extended Memory</b> 32 GB storage: trends, logs, TS record
HW option	<b>Tropicalization</b> Preserve the HW from corrosion