EDGEPROBE NANO

QAM DVB-C Compact Monitoring Probe

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 DTV NETWORK.
EDGEPROBE NANO IS ABLE TO MONITOR DVB-C/C2 SIGNALS THROUGH ITS RF INPUT (144 X 137 MM COMPACT FORMAT).
COMBINED WITH A NETWORK MONITORING SYSTEM OR NOT, THE EDGEPROBE NANO PROVIDES A POWERFUL BROADCAST NETWORK ALERT & DIAGNOSIS TOOL ALLOWING DTV NETWORK OPERATORS TO MONITOR GLOBAL TRENDS AND ANTICIPATE POTENTIAL FAILURES.



APPLICATIONS

- Digital Cable network monitoring (24/7)
- Multi-channel monitoring in round-robin mode
- Generation of Service Availability reports for Service Level Agreement
- 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
- Remotely accessible, compatible with low bandwidth control networks (GPRS/3G)
- Portable tool for maintenance team
- Easy to use and configure
- Standalone: no need for PC
- Enables SNMP test automation
- Low power consumption 8W

Monitor DVB-C QAM signals

RF signal quality: Signal Level, MER, BER

Modulation parameters, L1 part2 signaling in DVB-C2

Scanning mode for sequential monitoring of multiple RF channels (round-robin)

ITU-J83 Annexes A, B, C (roll-off 0.15)

Complete MPEG-2 TS Monitoring

ETSI TR 101 290 Priority 1, 2, 3

QoS indicators (optional): Service Availability Error & Service Degradation Error

Verify Regionalization: Service Plan view, PID/Service presence, Scrambling

Service & components bitrates

Powerful Rebroadcasting Receiver - Gateway from RF to ASI/IP

Forward the analyzed TS over ASI output

Forward the analyzed TS over IP control port (VLAN support)

32 GB of internal storage

Alarm logs up to 6 months

RF parameter trends up to 6 months

TS recording (manual trigger)

Remote connection

Compatible with all Network Monitoring Systems, providing a powerful network alert & diagnosis tool: monitor global trends and anticipate potential failures.

Compatible SNMP v2c and v2c INFORM for alarming and device configuration

Web GUI access: support of low bandwidth Internet connection (3G, GPRS)

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INTERFACES

RF	*
Connector In	1 x RF input (F-type female – 50 Ω)
Standard	DVB-C: ITU-J83 Annexes **A**, B, **C** (roll-off 0.15), 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
Control/Data	1x Gigabit Ethernet for Web GUI, SNMP-V2C and IP Data in/out (VLAN support)
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	MPEG-2 TS Monitor, ETSI TR 101 290 Priority 1 and 2
TS Monitor Advanced	ETSI TR 101 290 Priority 3, QoS (SAE/SDE)
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

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 to 70°C / -4 to 158°F
Humidity	0 to 95%, non condensing

ORDERING CODES

EdgeProbe Nano DVB-C/C2	**DVB-C Compact Monitoring Probe**
Options	**SW ACCESS** : RF Monitoring, Round-Robin, ETSI TR 101 290 Monitoring (Priorities 1, 2, 3) **SW PERFORMANCE** : RF Monitoring, Round-Robin, ETSI TR 101 290 Monitoring (Priorities 1, 2, 3), Service Plan & Multiplex View

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