

CastXplorer™ -C

Digital Cable Live RF Network Probe



The CastXplorer-C is a compact Network Probe designed to combine continuous monitoring of both critical RF and MPEG2-TS parameters to provide Cable carriers with a constant view of their network health and status with excellent cost-efficiency.

CastXplorer-C is a Digital Cable standalone analyzer used for continuous monitoring and health diagnosis of Cable networks.

The probe is capable of continuously logging all statistics values and of sending SNMP traps if parameters values get out of the defined range. This allows long-term performance monitoring of the network combined with real-time reception of key alarms, thus achieving the optimal trade-off between alarm severity and alarm management time.

Combined with a Network Monitoring System, CastXplorer-C turns into a powerful network diagnosis tool allowing cable carriers to highlight global trends and to anticipate potential failures.

For maximum cost-efficiency, CastXplorer is capable of monitoring multiple channels on a round-robin basis. One single CastXplorer 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, CastXplorer-C is the ideal tool to achieve cost-effective 24/7 monitoring of the quality actually delivered to all points of a Digital Cable network.

Application

- Digital Cable network monitoring (24/7)
- Multi-channel monitoring
- Long-term network performance management

Benefits

- RF + Baseband critical parameters monitoring
- Frequency round-robin for cost-efficiency
- Easy integration with NMS through SNMP
- Digital Cable live signals reception
- Validation of reception & transmission quality
- Compact and robust device for easy installation into street cabinets or other constraint environments
- Cost-effective and powerful equipment for complete network monitoring

Characteristics

- 1 RF input for Digital Cable (ITU-J83)
- ITU-J83 Annexes A, B & C supported
- 2x mirrored DVB-ASI outputs
- RF key measurements
- TR 101 290 validation (aka ETR290)
- SNMPv2
- Storage capability for statistics files
- Web-based GUI for real-time monitoring

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Input Interfaces

RF input

Standards	ITU-J83, Annexes A, B & C
Connector	1x F-type (female) - 75 Ω
Frequency range	50 - 900 MHz (125kHz step)
Sensitivity	-75 to -10 dBm
Channel bandwidth	6 & 8 MHz
Symbol rate	0.87 to 7 Msymbols/s
Modulation	QPSK, 16QAM, 64QAM, 128QAM & 256QAM

RF loopthrough

Connector	1x F-type (female) - 75 Ω
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DVB-ASI Outputs

Connector	2x BNC-type (female) - 75 Ω Mirrored
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RF Measurements

All measurements are made in **real-time**

MER	15 to 38, expressed in dB
EVM	0 to 100 (in %)
Signal level	33 to 99, expressed in dBμV
SNR	17 to 41, expressed in dB
Bit Error Rate	Pre-Reed-Solomon

Baseband Transport Monitoring

All features are monitored in **real-time**

TR 101 290

Priorities 1, 2 and 3 partially implemented

Bitrate monitoring

Control & Management

Ethernet	10/100bT
Web	Rich client interface with live statistics & monitoring
Front Panel	IP address and other key settings
Dry Relay Out	5-position MiniConnec, 3.81mm pitch
Supervision	Full SNMP v2 support Gets, sets and configurable traps for NMS supervision

Control Interface

Type	10/100bT
Number of ports	1
Connectors	RJ45
Protocols	HTTP, HTTPS, FTP, SFTP, SNMP v2

Environment

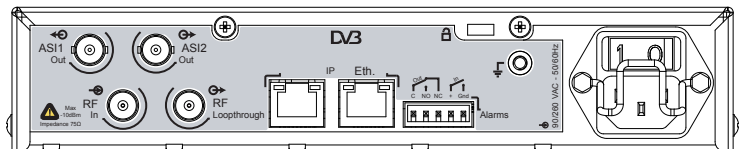
Operating temperature	0 to 60°C / 0 to 140 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing

Physical and Power

Height	43 mm / 1.7 in
Width	220 mm / 8.7 in
Depth	263 mm / 10.4 in
Weight	2 kg / 4.4 lb
Format	1 RU, ½ width 19"
Power supply	90-240VAC
Power consumption	10 W

Ordering codes

Digital Cable Network Probe **CastXplorer-C**



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