KRIIO II – ETR 290™ QAM

Affordable yet comprehensive device for remote 24/7 full ETR 290 monitoring and error logging of QAM channels. Decodes and monitors RF parameters and ETR 290 compatibility and errors in MPEG transport streams (PAT, PMT, NIT, SDT, CAT, TDT, and TOT). With its powerful carrier search engine, it is able to find and analyze all available RF channels. Detects missing audio or video streams. Measures and reports via email the essential parameters of both RF and digital signals at an exceptional price/quality ratio. RF coax input.

Overview

Inexpensive RF monitoring tools can lead to ever greater quality and reliability of signals emanating from cable head ends. The KRIIO II – ETR 290 QAM is designed to provide you with a comprehensive RF based QAM analysis tool. Through its powerful search engine, the KRIIO is able to monitor all available channels.

The KRIIO II – ETR 290 QAM is specially built for CATV networks and QAM broadcasters that want to provide their clients with quality service round the clock. This can only be achieved with constant monitoring of critical parameters.

Through RF inputs, the unit sequentially monitors a set list of channels and continuously ensures that your network meets both legal requirements and your operating goals.

With its IP based management interface, the KRIIO II – ETR 290 QAM can be controlled remotely using the user-friendly embedded web site or an SNMP-Based network management system. The system offers innovative functions such as multi-channel monitoring (up to 240 channels per receiver), automatic scanning, and remote control.

The KRIIO II – ETR 290 QAM can scan the QAM signal for one or two minutes. The measured results are represented in charts on the embedded web server. Without any special software, just enter the IP address of the device in your web browser and it will display all subchannels in your cable network.
Inputs/Outputs

LAN  QAM In  Power

Specifications

Communication Ports
Ethernet: 100BaseT – Web Server and UDP/TCP (SNMP/ASCII)

Frequency Range and Modulation
Frequency range: 46 MHz - 1004 MHz
Digital RF: ITU-T Recommendation J.83 Annex B (Clear QAM)

Demodulator
QAM: ITU-T Recommendation J.83 Annex B (Clear QAM)
Supports: 128/256 QAM
Bandwidth: 6 MHz
Symbols rate: 1MS/7MS/S

Digital Measurements
Standard: ETSI TR 101 290 V1.2.1
Level (Voltage Level): 30dBuV - 100dBuV (±2dBuV)
MER: 19dB - 45dB (±2dB)
C/N: 19dB - 45dB (±2dB)
SNR: 19dB - 55dB (±2dB)
BER (for DVB-C): 1E-1~ 1E-7

MPEG Decoding
PSI Tables: PAT, PMT, SDT, TDT, TOT
Alarms: Service Audio/Video alarms with e-mail notifications and SNMP traps

TR 101 290 Alarms
Priority 1 Alarms: TS Lock, PAT Interval, Continuity, PMT Interval, Missing PID
Priority 2 Alarms: Transport error indicator, CRC, PCR Interval, PTS Interval, CAT
Priority 3 Alarms: NIT Interval, SI repetition rate, Unreferenced PID, SDT Interval, EIT Interval, RST, TDT Interval
CA Alarms: ECM Maximum Interval, Scrambling change interval, EMM minimum bitrate

SFN Measurements & Alarms
SFN Impulse response: Accuracy ±3μs
SFN Impulse response Drift: Accuracy ±3μs
GPS Lock: Alarm
MIP packet: Alarm

Monitoring
Alarms: Carrier count, Level (low, high), SNR (low), C/N (low), MER (low), BER (high), CBER (high), VBER (high), PAT/PMT/Audio/Video missing alarm
Log, E-mail, SNMP traps: Available

Info
Updates: Available
Front Panel LEDs: Power supply, LAN, Alarm

Physical & Power
Voltage: 115V, 230V
Voltage Tolerance: +/-10%
Main AC Frequency: 45-65 Hz
Fuse: 0.8A
Consumption: 10 VA
Dimensions – (W x D x H): 19 x 8.66 x 1.75 inches (483 x 220 x 44.5 mm)
Weight: 5.5 lbs. (2.5 Kg)

Ordering Information

KRIO II – ETR 290 QAM