DQM130
TS Analyzer with MER & RF Analysis

Digital television requires significantly fewer measurement parameters to evaluate the quality of the transmitter output signal; Broadcasters and Network Operators are increasingly interested in knowing the real performance of terrestrial DTT networks, critical especially after the introduction of SFN transmission. The DGQoS DQM series of probes allows operators to accurately verify the quality of signals received in viewers' homes emulating the reception quality of set-top boxes and TVset. DQM130 is the ideal probe to have a 24/7 control of the Quality of Service for DTT networks; very compact (just 1 RU 19"), it embeds DVB-T/T2 (and very soon ISDB-Tb) demodulator and TS analyzer according to TR 101.290 (priority 1,2 and 3).

It accepts also ASI input (for distribution network equipment monitoring, such as microwave links, satellite receivers and fiber optic terminals) and, if equipped with internal MPEG-2/MPEG-4 HD decoder, provides confidence audio and video streaming, single service or full Transport Steam over IP.

Even RF parameters, such as RF level, MER, constellation, echo pattern and MER(K), are continuously monitored, allowing operators to immediately identify problems in the transmission network, reducing black-out time.

The DQM130 can be configured and monitored through local user interface (display/keypad) or remotely through web interface and SNMP (for integration with NMS).

FEATURES

- RF measurements with a very wide dynamic range (-85 to +10dBm)
- Suited for onsite and territorial monitoring
- Automatic DVB-T and DVB-T2 detection
- Up to 16 different channels in scan mode
- Real time mode available
- MIP monitoring for SFN networks
- Echo pattern display and alarm masking for both DVB-T and T2
- Constellation display
- Spectrum display
- Template alarms for each channel (all TPS parameters including cell ID)
- Template function for TS parameters (detects TS content change)
- Data rate monitoring for each service and PID with long term and peak evaluation.
- Video and audio confidence streaming at low bitrate or entire service or TS over Ethernet.

MONITORING

- NMS or direct web based monitoring
- Easy to use web interface for both setup and measurements
- SNMP v2 for use with NMS systems
- Sequencing mode with up to 16 user definable channels.

OTHER FEATURES

- Remote firmware upgrade
- Great quality/price ratio

DIMENSIONS

Width	19" (482,6 mm)
Height	1U (44,45mm)

ELECTRICAL SPECIFICATIONS

Power supply	115/230v (90 – 264 VAC) 12vdc optional
Frequency	50/60Hz (47 – 65Hz)

RF SPECIFICATION

Input	50 ohm 'N' type connector
System	DVB-T/ DVB-T2
Frequency	94 to 900 MHz (resolution 100kHz)
Bandwidth	6, 7 & 8 MHz
Level measurement	85 to +10dBm (precision +-1dB, resolution 0.1dB)
MER	38dB (typ. 40dB) (precision +-1dB, resolution 0.1dB)

ASI INPUT

Input	75 ohm 'BNC' connector
Level	800mVpp unbalanced (optionally balanced)
Cable lenght	max 300m
Datarate	270Mbit/sec (TS max 50Mbit/s)
Packets	188 or 204
Structure	burst or punctured

ASI OUTPUTS

Outputs	2 (one carries the RF input and the other carries the ASI input)
Level	800mVpp unbalanced (optionally balanced)
Datarate	270Mbit/sec (TS max 50Mbit/s)
Packets	same as related input
Structure	same as related input

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