

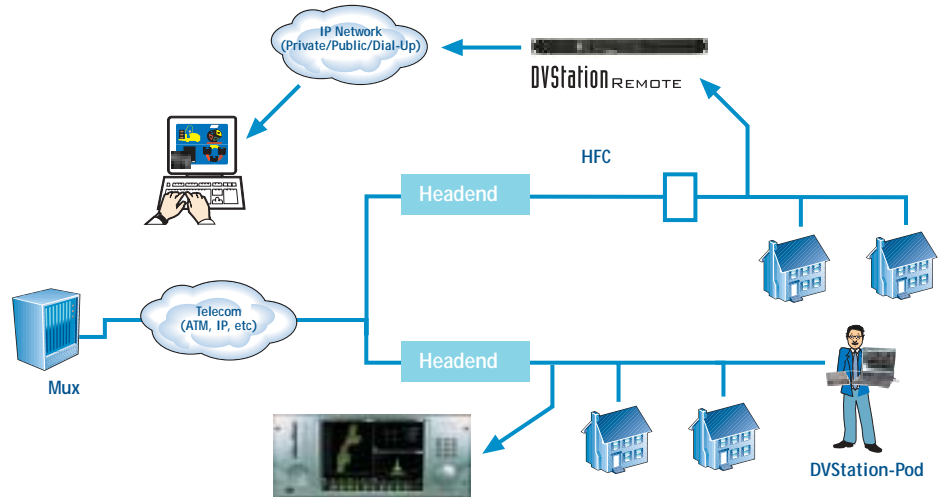
service integrity
 signal integrity
 remote monitoring

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DVStation: Advanced Monitoring for Digital Networks

QAM Transport Stream Processor & Tuner



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COMPREHENSIVE TRANSPORT STREAM MONITORING



SPECIFICATIONS

Standards

- ETSI EN 300 429 (DVB-C)
- ETSI TR 101 290 (Measurement Guidelines for DVB Systems)

Form Factor

- Standard DVStation™ series hot-swappable modules, 2 slots for RF & TS monitoring, 1 slot for RF only monitoring
- DVStation-Pod modules, 2 modules mountable in 1RU 19" rack space

RF Input

- Connector: BNC
- Impedance: 75Ω
- Return Loss: 13 dB Typical
- RF Power Level: -13 dBmV *
- Tuner Center Frequency Range: 47 to 862 MHz
- Tuner Channel Bandwidth: 8 MHz

IF Input

- Connector: BNC
- Impedance: 75Ω or 50Ω (factory option)
- Return Loss: 14 dB Typical
- RF Power Level: TBD
- Center Frequency: 36.125 MHz
- SAW Filter: 8 MHz or None (factory option)
- Tuner Center Frequency Pull-In: 500 kHz (without SAW)

Demodulation

- Order of QAM Modulation: 16, 32, 64, 128, & 256
- Coding: As per EN 300 429 (DVB-C)
- Symbol Rate: 4.00 to 6.96 MSym/s

TS Output

- Pixelmetrix Card1 Daisy Chain Bus for cable-free connection of transport stream to TSP card in adjacent slot
- DVB-ASI, 75Ω BNC on front panel

Performance

- Inherent MER: 32 dB

Reported Demodulation Parameters

- Demodulator Lock
- Order of QAM modulation

Measurements

- RF Carrier Level
- RF Carrier Centre Frequency Offset
- MER (Modulation Error Ratio)
- BER (Bit Error Ratio) Before Forward Error Correction
- TS Packet Error Count After Forward Error Correction

Graphical Presentations

- Constellation: Up to 4096 sampled constellation points in high resolution I/Q plane

Alarms

- Demodulator Lock Lost/Acquired
- RF Carrier Level Falls Below User Specified Threshold
- IF Carrier Level Falls Below User Specified Threshold
- MER Falls Below User Specified Threshold
- BER Before Forward Error Correction Rises Above User Specified Threshold
- TS Packet Error Event

Transport Stream Testing

- Consult the Pixelmetrix Transport Stream Processor (TSP) datasheet.

*Measured at 474MHz, 8MHz, 2K, QPSK, CR=1/2, GI=1/4, BERpreRS<2x10⁻⁴

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Ref: PPN30077
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