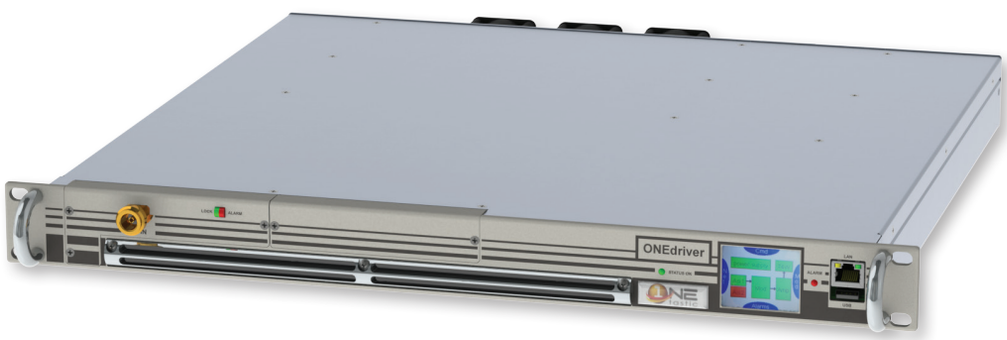
Spectrum Restorer

NEW regenerative ATSC gap filler/on-channel repeater (EDOCR) with SFN capability



The Onetastic NEW Spectrum Restorer is a regenerative gap filler/on-channel repeater (EDOCR) with effective echo cancellation and SFN capability.

Newly developed circuit design enables the Spectrum Restorer to subsequently demodulate, error-correct and re-modulate incoming signals in a tremendously fast and effective way.

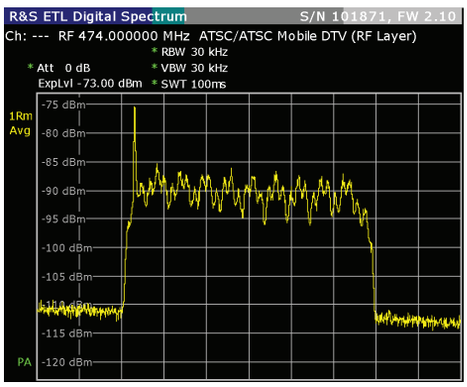
Even while preserving proper SFN operation, the Onetastic Spectrum Restorer features a very high output MER regardless of the input signal MER, thanks to the new Onetastic super-fast regenerative processing.

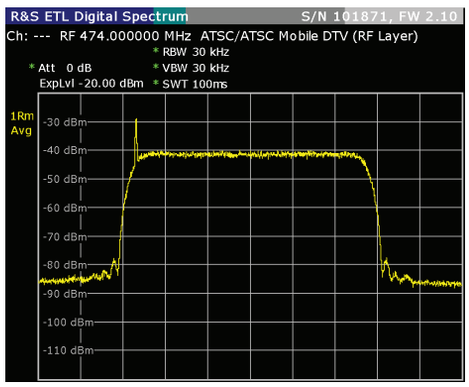
This ensures the utmost flexibility in the network design as well as the best signal quality at any target location - no matter whether they are served by a main transmitter or a remote EDOCR.

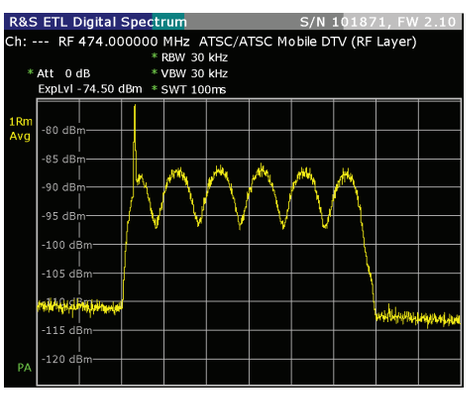
The Onetastic Spectrum Restorer features input sensitivity up to -72dBm and effective Echo cancellation up to 40 dB.

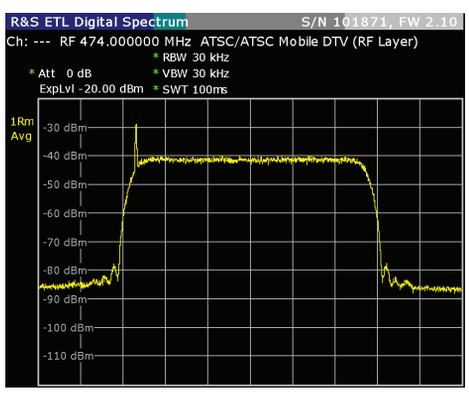
MAIN FEATURES

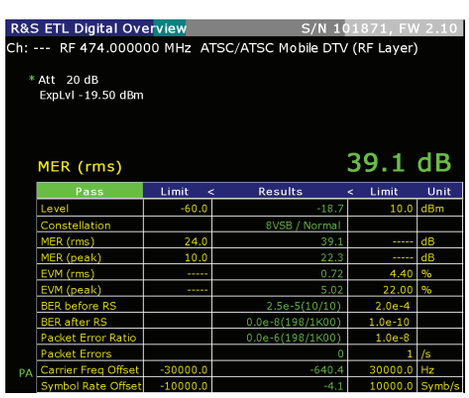
- Compact 1U 19" Rack chassis
- High Adjacent channel rejection
- Low multihop Noise/Error accumulation due to the Equalizer with Short Viterbi correction Slicer
- Input sensitivity up to -72dBm and Echo/signal ratio up to 12dB over the main signal
- 4 µs pre-equalizer and 36 µs post-equalization for multipath and ACI
- Equipment Latency ~24us with Linear precorrection and Pre-equalization, otherwise ~16µs
- Optional internal demodulator with equalizer for regenerative transposers
- Linear precorrection Adaptive Direct Learning FIR with 96 taps
- Non-linear Adaptive Predistortion module with memory effect compensation for Doherty high efficiency PAs.
- SNMP, Web Interface and Touch Screen display

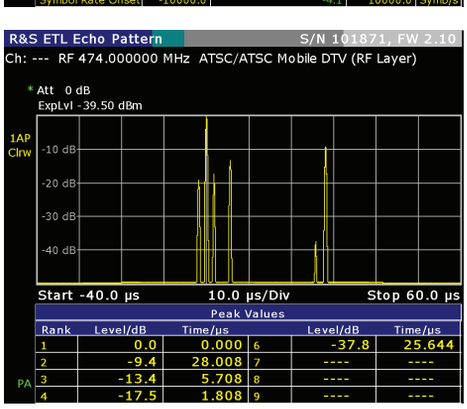


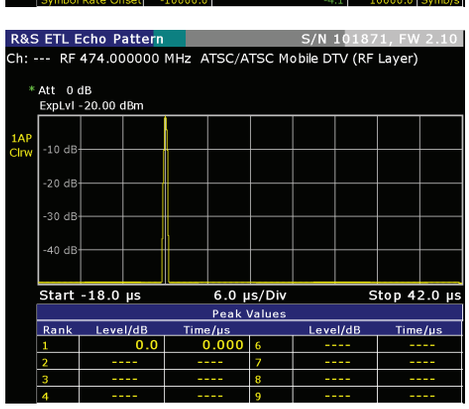












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