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EMI Receiver TDEMI X - Emission Measurements by a factor of 64 000 times faster

The series of ultra-fast and high performance EMI Receivers TDEMI eXtreme (TDEMI X) of GAUSS INSTRUMENTS provides due to a real-time bandwidth of 325 MHz in addition to the classical EMI Receiver mode a variety of measurement and analysis functions.



Fig. 1 – EMI Receiver TDEMI X

Using leading edge FPGA technology the measurement time can be reduced by a factor of 64 000. High resolution gigasamples Analog-to-Digital increase the dynamic range by more than 25 dB in comparison to the previous product series TDEMI. Using Multisampling in the frequency range from 30 MHz to 1 GHz a spurious free dynamic range of 100 dB is achieved. In addition to the fast FFT-based measurement mode the instruments also provide a classical superheterodyne mode. The instruments covering several frequency ranges up to 40G and can



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be used for measurements according to CISPR 16-1-1, MIL461, DO160. In addition to the EMI Receiver mode the TDEMI X Series provides a real-time spectrum analyzer as well as a 2 Channel, 1 GHz, 12 Bit oscilloscope.

GAUSS INSTRUMENTS presents its products at the EMV 2014 in Düsseldorf at Booth CCD-211.