



TDEMI® G series

TDEMI stands for a novel generation of EMI measurement systems providing real-time analysis and enabling the user to perform high-quality emission measurements in a fractional amount of time compared to conventional EMI receiver technology. Ultra-fast Analog-to-Digital Conversion as well as real-time signal processing allows to emulate the behavior of instruments like oscilloscopes, receivers and spectrum analyzers. Due to the TDEMI's powerful signal processing hardware platform, corresponding to a computation power of approx. 80 conventional PCs, such measurements are extremely fast in comparison to state of the art solutions.

Performing tests for EMC, the measurements are accelerated by a factor up to 16000 using the TDEMI G series. The TDEMI G series can be used for conducted, power disturbance and radiated emission measurements. All instruments of the TDEMI family are remote-controllable via TCP/IP. The TDEMI G provides a fully gapless real-time spectrogram mode (Option RTEM*-UG), enabling the user to perform EMC debugging in full gapless real-time. Beside the standard configuration there are a series of additional features available to customize the TDEMI G series according to the specific needs of the user.

The instruments of the new TDEMI G series are available in the following different frequency ranges and can be configured in addition also with many different options according to your specific application and requirements:

- TDEMI 30M (1 Hz – 30 MHz, with Opt. 1Hz-UG, upgradeable to 1, 3, 6, 9, 18, 26, 40 and 44 GHz resp.)
- TDEMI 1G (1 Hz – 1 GHz, with Opt. 1Hz-UG, upgradeable to 3, 6, 9, 18, 26, 40 and 44 GHz resp.)
- TDEMI 3G (1 Hz – 3 GHz, with Opt. 1Hz-UG, upgradeable to 6, 9, 18, 26, 40 and 44 GHz resp.)
- TDEMI 6G (1 Hz – 6 GHz, with Opt. 1Hz-UG, upgradeable to 9, 18, 26, 40 and 44 GHz resp.)
- TDEMI 9G (1 Hz – 9 GHz, with Opt. 1Hz-UG, upgradeable to 18, 26, 40 and 44 GHz resp.)
- TDEMI 18G (1 Hz – 18 GHz, with Opt. 1Hz-UG, upgradeable to 26, 40 and 44 GHz resp.)
- TDEMI 26G (1 Hz – 26 GHz, with Opt. 1Hz-UG, upgradeable to 40 and 44 GHz resp.)
- TDEMI 40G (1 Hz – 40 GHz, with Opt. 1Hz-UG, upgradeable to 44 GHz resp.)
- TDEMI 44G (1 Hz – 44 GHz, with Opt. 1Hz-UG)