

NEWSPACE MARKET · COMPANY PROFILE



GAUSS Instruments

Germany · founded 2007 · gauss-instruments.com

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PRODUCTS

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as of 20 August 2026

GAUSS Instruments

GAUSS Instruments designs and manufactures EMC test equipment, specifically EMI test solutions. Their product lines include the TDEMI ULTRA and TDEMI X real-time receiver series, which cover frequency ranges from DC to 40 GHz. These systems integrate spectrum analyzers, real-time spectrum analyzers, time-domain modes, and FFT-based receivers. The company's technology, known as TDEMI® Technology, combines time-domain, FFT-based, and superheterodyne techniques. Their products are used for measurements and testing according to telecommunication standards (ETSI, FCC), civil standards (CISPR, EN, FCC Part 15, ANSI C63.4), military standards (MIL-461G), and avionics standards (DO-160), as well as OEM standards. Customers include official metrology labs, testing and certification institutes, leading automotive OEMs, and other blue-chip companies. GAUSS Instruments was established in 2007 and manufactures its instruments in Germany. The company's technical roots trace back to basic research on short-time Fourier analysis and synthesis from the 1970s, with the founders inventing the core measurement technology in the early 2000s. They develop systems using ultra high-speed analog-to-digital converters and real-time digital signal processing methods, as well as millimeter and microwave technologies. The company holds qualifications for compliance with standards such as CISPR 16-1-1 and ANSI C63.2.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Advanced EMI Test Solutions

GAUSS INSTRUMENTS provides advanced EMI test solutions to accelerate product development and testing capabilities, speeding up time to market cycles.

Automated Conducted Emission Measurements

The TDEMI System automates and speeds up conducted emission measurements, enhancing quality and generating test reports automatically.

Automated Measurement of Disturbance Power

The TDEMI X receiver series automates disturbance power measurements in real-time, using an absorber clamp and generating reports automatically.

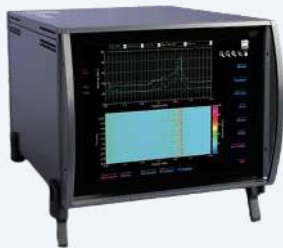
Customized Signal Processing Solutions

GAUSS offers customized signal processing solutions based on their hardware and DSP platforms, along with unique software solutions to meet specific customer requirements.

Full Quasi-Peak Characterization in Real-time

The TDEMI X Measurement System provides full quasi-peak characterization in real-time up to 1 GHz, significantly speeding up testing and improving measurement quality.

Product catalogue



GAUSS INSTRUMENTS

TDEMI ULTRA

Ultra-high-performance real-time EMI/EMC receiver and measurement system covering DC to 40 GHz with a 685 MHz instantaneous bandwidth, combining spectrum analyzer, real-time spectr

Frequency range	DC to 40 GHz
Instantaneous (real-time) bandwidth	685 MHz
Real-time disturbance power measurement span	up to 300 MHz
Quasi-peak parallel frequencies	up to 64,000 frequencies in parallel
Quasi-peak characterization range	up to 1 GHz
Pre-selection filter loss (up to 26.5 GHz)	less than 1 dB
Compliance	CISPR 16-1-1, ANSI C63.2

price on request

Contact GAUSS Instruments

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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