

MODULAR TEST SYSTEM EMCenter™ EM8



EMCenter EM8 Modular Test System

- Modular Platform for RF Measurements
- Numerous Configuration Options
- Eight Slots for Plug-In Cards
- Ideal for ISO 11451-5 Testing
- 1 Gbit LAN Interface
- Flexible
- Scalable

The EMCenter EM8 Modular Test System forms the heart of many different EMC and RF test systems. The EMCenter has the ability to store up to eight (8) instrument plug-in cards, which can all be controlled and used simultaneously. The 1 Gbit LAN interface, providing some of the fastest acquisition in the industry, makes the EMCenter EM8 the ideal hardware platform for applications requiring multiple channels and fast measurements, like Automotive mode-stir (reverberation chamber) testing or switching applications.

Fast Measurements

The EMCenter EM8 is equipped with a 1 Gbit LAN interface. Each instrument that is installed in the eight slots can be directly controlled by a designated IP address, allowing fast measurement throughput.

Laser Safety

To ensure operator safety and prevent accidental operation and/or starting the laser power supply of the EMSense probes, the EMCenter EM8 is equipped with a laser ON/OFF hardware button.

Flexible

Each of the eight slots can be configured by the user, allowing any combination of plug-in cards. All cards can be commanded and operated using TILE!™ software.

Scalable

The EMCenter can be scaled using a wide array of available plug-in cards including:

- EMSense™ laser powered E-field sensors
- EMField™ integrated EMC immunity test solution
- EMPower™ RF power meters for EMC applications
- EMGen™ RF signal generators
- EMSwitch™ for switching one, two, four, or six RF signals

Example Application

The international standard ISO 11451-5 "Vehicle Test Methods for Electrical Disturbances from Narrowband Radiated Electromagnetic Energy – Part 5: Reverberation Chamber" defines the measurement and calibration of E-fields at eight reference points to characterize the reverberation chamber. For this application, the EMCenter EM8 can be configured with 8x EMSense™ laser powered E-field probes*, allowing the accurate measurement of the isotropic field strength within the working volume of the chamber.

*Field probes and interface cards sold separately.

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Technical Specifications

Performance	
Number of Slots for Plug-in Cards	8
Backplane	Intelligent and Versatile
Mounting	Desktop or 19 in Rack Mountable
Dimensions	
Height	132 mm (5.2 in), 3U
Depth	312 mm (12.3 in) Excluding Rear Panel
Width	19 in Rack Mountable
Weight	7.0 kg (15.4 lb) Empty
Environmental Conditions	
Temperature Range	10° C to 40° C
Relative Humidity	5% to 9% (Non-condensing)
Electrical	
Supply Voltage	115 VAC/230 VAC
Power Consumption, Standby	<3 W
Power Consumption, Empty	33 W
Power Consumption, Maximum Load	225 W
Interfaces and Cables	
Interface	LAN
Connectors	Interlock and LAN
Cables	IEC Power Cord
Safety	
Interlock	6.35 mm jack plug connection to safety disables interlock and interlocked laser outputs when triggered.