RF TEST SOLUTIONS EMCENTER™ MODULAR RF PLATFORM

EMCENTER™ MODULAR RF PLATFORM

- **Modular Platform for Making RF Measurements**
- **Reduces Test System Complexity**
- **Includes Backplane, Power, and TFT Touch Screen Control**
- **Accepts Up to Seven Optional Plug-n-Play Instrument Card Modules**
- **Supported by Popular RF Test Automation Software**
- **LAN Interface Standard with GPIB Option (7000-010)**

ETS-Lindgren's EMCenter is a modular RF platform consisting of an integrated microcontroller, modular chassis, and a selection of optional plug-in card modules. It can be used to perform a variety of RF measurement applications.

The EMCenter's compact footprint reduces system complexity and provides centralized control and accessibility. The 3U 19-inch form factor can accept up to seven optional instrument card modules. Each individual card module is a miniaturized instrument that has been optimized for RF measurement. Card modules are easily inserted into the chassis' rear card bay, and are recognized when the system initializes. Multiple EMCenters can be linked together to form scalable systems.

EMCenters can be manually controlled through a series of menus accessed on the front panel TFT touch screen. The platform's embedded Linux-based software is stored in flash memory to simplify version upgrades.

For automated testing, EMCenter can be controlled with TILE!™, EMQuest™ and other PC compatible RF software packages. Using RS-232, LAN, USB and the optional IEEE-488 I/O, the software can control external receivers, amplifiers, power meters, antennas, and other equipment in the test loop.

Typical EMCenter applications include EMC and wireless measurements, E-Field monitoring, and other RF applications.

Standard Configuration

- EMCenter Modular RF Platform Model 7001-001
- Interlock Plug
- 19" Rack Mounting Brackets
- Power Cable

Options

- EMSwitch™ Switch Two, Four, Six RF Signals Up to 40 GHz/100W Channels
- EMPower™ RF Power Meter, 6 GHz and 18 GHz
- EMPower Pulse™ RF Burst/Pulse Power Meter, 6 GHz/8 GHz and 18 GHz
- EMGen™ Signal Generator
- EMControl™ Tower and Turntable Controller
- EMSense™ Controls ETS-Lindgren's Laset and Battery Powered E-Field Probes
- EMField™ E-Field Generator

Product Specifications

Model 7000-001/Model 7000-010	
Plug-In Card Slots	7 Modular Plug-In Card Slots
Display (TFT Touch Screen)	178 mm (7 in) TFT/WVGA (800 x 480)
Operating System	Linux
Supply Voltage	115/230 VAC
Power Consumption, Standby	50 Ω
Power Consumption, Empty	<2:1 Typical
Power Consumption, Max. Load	2:1 Maximum
I/O Interface	IEC Inlet, USB-A 2.0 (2), USB-B 1.1, Sub D-9, Interlock, Ethernet
Cables	IEC Power Cord
Interlock	External Interlock and Interlocked Laser Outputs
Warranty	3 Years
Physical Specifications	
Height	132 mm (5.25 in) [3U]
Width	447 mm (17.6 in)
Depth	350 mm (13.8 in)
Weight	7 kg (15.4 lb) [Controller Only]
Configuration	Desktop or 19" Rack Mountable
Temperature Range	0° C to +40° C (+32° F to +104° F)
Relative Humidity	10% to 90% (Non-Condensing)

Model 7000-001	Model 7000-010
EMCenter 7-Slot RF System	EMCenter 7-Slot RF System +GPIB

Modular Plug-In Card Information	
7001-00X, EMSwitch	Switch Two, Four, or Six RF Signals up to 40 GHz/100W Channels
7002-00X, EMPower	Power Meter, 6 GHz and 18 GHz
7002-00X, EMPower Pulse	RF Burst/Pulse Power Meter, 6 GHz/8 GHz and 18 GHz
7003-003, EMGen	Signal Generator with 4 kHz to 6 GHz Frequency Range
7006-001, EMControl	Antenna Tower and Turntable Controller
7007-001, EMSense	Controls ETS-Lindgren's Battery Powered Field Probes
7007-00X, EMSense	Controls ETS-Lindgren's Laser Powered Field Probes

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