

## RF TEST SOLUTIONS EMCENTER™ MODULAR RF PLATFORM



### MODEL 7000-001

- **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**

**ETS-Lindgren's EMCenter** is a modular RF platform consisting of an integrated micro-controller, 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
- Interlock Plug
- 19" Rack Mounting Brackets
- Power Cable

#### Options

- **EMSwitch™**  
Switch Two, Four or Six RF Signals up to 18 GHz/100W Channels
- **EMPower™**  
RF Power Meter, 6 GHz and 18 GHz
- **EMPower Pulse™**  
RF Burst/Pulse Power Meter, 6 GHz and 18 GHz
- **EMGen™** Signal Generator
- **EMLink™**  
Analog Fiber Optic Link, up to 3 GHz
- **EMControl™**  
Tower and Turntable Controller
- **EMSense™**  
Controls ETS-Lindgren's Laser and Battery Powered E-Field Probes
- **EMField™** E-field Generator
- **EMCenter 7-Slot RF System**  
+IEEE-488 (GPIB)

# RF TEST SOLUTIONS EMCENTER™ MODULAR RF PLATFORM



EMCenter shown in standard configuration.  
Optional plug-in card module information shown below.

## Product Specifications

### Model 7000-001

Plug-in Card Slots	7 Modular Plug-in Card Slots
Display (TFT Touch Screen)	178 mm (7") TFT/WVGA (800 x 480)
Processor	800 MHz Vortex 860x CPU
Memory	256 MB DDR2 RAM, 256 MB Flash
Operating System	Linux
Supply Voltage	115/230 VAC
Power Consumption, Standby	<.5W
Power Consumption, Empty	33W
Power Consumption, Max. Load	180W
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

Height	132.00 mm (3U) 5.25 in
Width	447.00 mm 17.60 in
Depth	350.00 mm 13.80 in
Weight	7.00 kg (Controller Only) 15.40 lbs
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)

## Product Specifications

### Model 7000-010

EMCenter 7-Slot RF System+GPIB	IEEE-488 (GPIB)
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## Product Specifications

### Modular Plug-in Card Information

7001-001, EMSwitch	Switch Two, Four or Six RF Signals up to 18 GHz/100W Channels
7002-00X, EMPower	Power Meter, 6 GHz and 18 GHz
7002-00X, EMPower Pulse	RF Burst/Pulse Power Meter, 6 GHz and 18 GHz
7003-001, EMGen	Signal Generator with 9 kHz to 6 GHz Frequency Range
7004-00X, EMLink	Analog Optic Fiber Link, to 3 GHz
7006-001, EMControl	Antenna Tower and Turntable Controller
7007-001, EMSense	Controls ETS-Lindgren's Battery Powered Field Probes
7007-002, EMSense	Controls ETS-Lindgren's Laser Powered Field Probes
7008-100, EMField	Powers and Controls EMField Generator