

RF Test Solutions EMCenter[™] Modular RF Platform

Model 7000-001

Features:

- Modular Platform for Making RF Measurements
- Reduces Test System Complexity
- Includes Backplane, Power, and TFT Touch Screen Control
- Accepts up to 7 Optional Plug-n-Play Instrument Card Modules
- Supported by Popular RF Test Automation Software



ETS-Lindgren's EMCenter Modular RF Platform

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/100 W Channels
- EMPower[™]
RF Power Meter, 6 GHz and 18 GHz
- EMPower Pulse[™]
RF Burst/Pulse Power Meter, 6 GHz and 18 GHz
- EMLink[™]
Analog Fiber Optic Link, up to 3 GHz
- EMControl[™]
Tower and Turntable Controller
- EMSense[™]
Controls ETS-Lindgren's Battery Powered E-field Probes
- IEEE-488 I/O (GPIB)
(Model 7000-002)

Product Specifications

MODEL FEATURE	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
Configuration	Desktop or 19" Rack Mountable
Dimensions (Height x Width x Depth)	132 mm (3U) x 447 mm x 350 mm 5.25 in (3U) x 17.6 in x 13.8 in
Weight	Approx. 7 kg (Controller Only) 15.4 lbs.
Temperature Range	0° C to +40° C (32° F to 104° F)
Relative Humidity	10% to 90% (non-condensing)
Supply Voltage	115/230 VAC
Power Consumption, Standby	<.5 W
Power Consumption, Empty	33 W
Power Consumption, Max. Load	180 W
Interface (Optional, Model 7000-002)	IEEE-488 (GPIB)
I/O Interface	IEC Inlet, USB-A 2.0 (2), USB-B 1.1, Sub D-9, IEEE-488 (Optional), Interlock
Cables	IEC Power Cord
Interlock	External Interlock and Interlocked LASER Outputs
Warranty	3 Years

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



Modular Plug-in Card Information

MODEL NUMBER	MODEL NAME	MODEL DESCRIPTION
7001-00X	EMSwitch	Switch Two, Four or Six RF Signals up to 18 GHz / 100 W 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
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
7000-002	I/O Interface	IEEE-488 (GPIB)

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