RF TEST SOLUTIONS EMSwitch™ RF Switch Plug-in Cards 7001-00X

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ETS-Lindgren's EMSwitch RF Switch Plug-in Cards are general purpose multi-channel switch matrixes, used to switch the RF path of equipment for RF measurement applications, including immunity, emissions, and wireless measurements. They are designed for use with ETS-Lindgren's EMCenter™.
EMSwitch plug-in cards are available in several versions:

- Two SPDT Coaxial Relays, 18 GHz
- Four SPDT Coaxial Relays, 18 GHz
- One SP6T Coaxial Relays, 18 GHz
- Two SP6T Coaxial Relays, 18 GHz
- One SP6T Coaxial Relay, 40 GHz
- One SPDT Coaxial Relay, 40 GHz
- Two SP6T Coaxial Relays, 40 GHz
- Two SPDT Coaxial Relays, 40 GHz
- Four SPDT Coaxial Relays, 40 GHz

Any combination of EMSwitch plug-in cards are supported.
EMSwitch plug-in cards switch RF signals from DC to 18 GHz, with powers up to 240 W (3 GHz) directly or any RF power switches indirectly. This 19" rack mountable box has an internal power supply to power 12 VDC/28 VDC relays and can control up to 4 external relays.
EMSwitch is fully supported by TILE!™, EMQuest™, and other test automation software packages. Please contact ETS-Lindgren for additional information.

Key Features

- Flexible Configuration
- Fully Expandable
- Hardware Interlock

Features

Flexible Configuration

EMSwitch plug-in cards are available in several versions, and can switch RF signals directly or indirectly, dependent upon frequency and power.

Fully Expandable

The EMCenter can accept multiple plug-in cards like the EMSwitch. For large switching applications, several EMCenters can be daisy-chained together.

Hardware Interlock

The first relay of the EMSwitch can be used either as a standard relay or as a safety interlock relay. Using this relay as a safety interlock, the RF input to the amplifier can be switched off, preventing personnel from being subjected to radiated RF fields. The RF interlock input can be connected to a switch on the entrance door of the test chamber.

Specifications

Electrical Specifications

Model	Number of Relays	Frequency Band	RF Switching Capacity	Interlock
7001-001 (Plug-in Card)	2x SPDT	18 GHz	DC to 3 GHz: 240 W 3 to 8 GHz: 150 W 8 to 12.4 GHz: 120 W 12.4 to 18 GHz: 100W	First Switch on Each Card can be Used as a True Interlock Switch
7001-002 (Plug-in Card)	4x SPDT	18 GHz	DC to 3 GHz: 240 W 3 to 8 GHz: 150 W 8 to 12.4 GHz: 120 W 12.4 to 18 GHz: 100W	First Switch on Each Card can be Used as a True Interlock Switch
7001-003 (Plug-in Card)	2x SP6T	18 GHz	DC to 3 GHz: 240 W 3 to 8 GHz: 150 W 8 to 12.4 GHz: 120 W 12.4 to 18 GHz: 100W	First Switch on Each Card can be Used as a True Interlock Switch
7001-005 (Plug-in Card)	1x SP6T	18 GHz	DC to 3 GHz: 240 W 3 to 8 GHz: 150 W 8 to 12.4 GHz: 120 W 12.4 to 18 GHz: 100W	First Switch on Each Card can be Used as a True Interlock Switch
7001-011 (Plug-in Card)	2x SPDT	40 GHz	DC to 6 GHz: 80 W 6 to 12.4 GHz: 60 W 12.4 to 18 GHz: 50 W 18 to 26.5 GHz: 20 W 26.5 to 40 GHz: 10 W	First Switch on Each Card can be Used as a True Interlock Switch

7001-012 (Plug-in Card)	4x SPDT	40 GHz	DC to 6 GHz: 80 W 6 to 12.4 GHz: 60 W 12.4 to 18 GHz: 50 W 18 to 26.5 GHz: 20 W 26.5 to 40 GHz: 10 W	First Switch on Each Card can be Used as a True Interlock Switch
7001-013 (Plug-in Card)	2x SP6T	40 GHz	DC to 6 GHz: 40 W 6 to 12.4 GHz: 30 W 12.4 to 18 GHz: 25 W 18 to 26.5 GHz: 15 W 26.5 to 40 GHz: 5 W	First Switch on Each Card can be Used as a True Interlock Switch
7001-015 (Plug-in Card)	1x SP6T	40 GHz	DC to 6 GHz: 40 W 6 to 12.4 GHz: 30 W 12.4 to 18 GHz: 25 W 18 to 26.5 GHz: 15 W 26.5 to 40 GHz: 5 W	First Switch on Each Card can be Used as a True Interlock Switch
7001-021 (Plug-in Card)	SPDT	12 GHz	DC to 1 GHz: 700 W 1 to 2 GHz: 500 W 2 to 3 GHz: 400 W 3 to 8 GHz: 250 W 8 to 12.4 GHz: 200W	First Switch on Each Card can be Used as a True Interlock Switch

Physical Specifications

Model	Exterior Dimension (H x W x D)	Supply Voltage (Volts)	Power Consumption (Maximum Watts)	Temperature Range	Relative Humidity	RF Connectors	Remote Control External Relays
7001-001 (Plug-in Card)	One Slot	Through EMCenter	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	SMA Type	Fiber Optic Link
7001-002 (Plug-in Card)	One Slot	Through EMCenter	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	SMA Type	Fiber Optic Link
7001-003 (Plug-in Card)	Two Slot	Through EMCenter	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	SMA Type	Fiber Optic Link
7001-005 (Plug-in Card)	One Slot	Through EMCenter	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	SMA Type	Fiber Optic Link
7001-011 (Plug-in Card)	One Slot	Through EMCenter	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	K Type	Fiber Optic Link
7001-012 (Plug-in Card)	One Slot	Through EMCenter	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	K Type	Fiber Optic Link
7001-013 (Plug-in Card)	Two Slot	Through EMCenter	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	K Type	Fiber Optic Link
7001-015 (Plug-in Card)	Two Slot	Through EMCenter	0 W	0° C to +40° C (32° F to 104° F)	10 to 90%	K Type	Fiber Optic Link
7001-021 (Plug-in Card)	One Slot	Through EMCenter	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	N Type	Fiber Optic Link

7001-004 (Remote Relay)	2U x 250 mm x 482.6 mm (2U x 9.8in x 19 in)	230 VAC	30 W	0° C to +40° C (32° F to 104° F)	10 to 90%	n/a	Fiber Optic Link

Other Specifications

- Standard Configuration
- EMSwitch Interlock (Selected Cards)
- EMSwitch RF Switch Plug-in Card