

## PROBES & MONITORS EMSWITCH RF SWITCH PLUG-IN CARDS 7001-00X



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- Flexible Configuration
- Fully Expandable
- Hardware Interlock

**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.

#### **Product 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.

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## Technical Specifications

Performance			
Model	Number of Relays	Frequency Band	RF Switching Capacity
7001-001	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: 100 W
7001-002	4x SPDT		
7001-003	2x SP6T		
7001-005	1x SP6T		
7001-011	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
7001-012	4x SPDT		
7001-013	2x SP6T		
7001-015	1x SP6T		
7001-021	1x SPDT	12.4 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: 200 W
Physical			
Model	Exterior Dimension	RF Connectors	Remote Control External Relays
7001-001	One slot	SMA type	Fiber Optic Link
7001-002			
7001-003	Two slots	k type 2.92 mm	
7001-005			
7001-011	One slot	N type	
7001-012	Two slots		
7001-013		One slot	
7001-015			
7001-021	One slot		