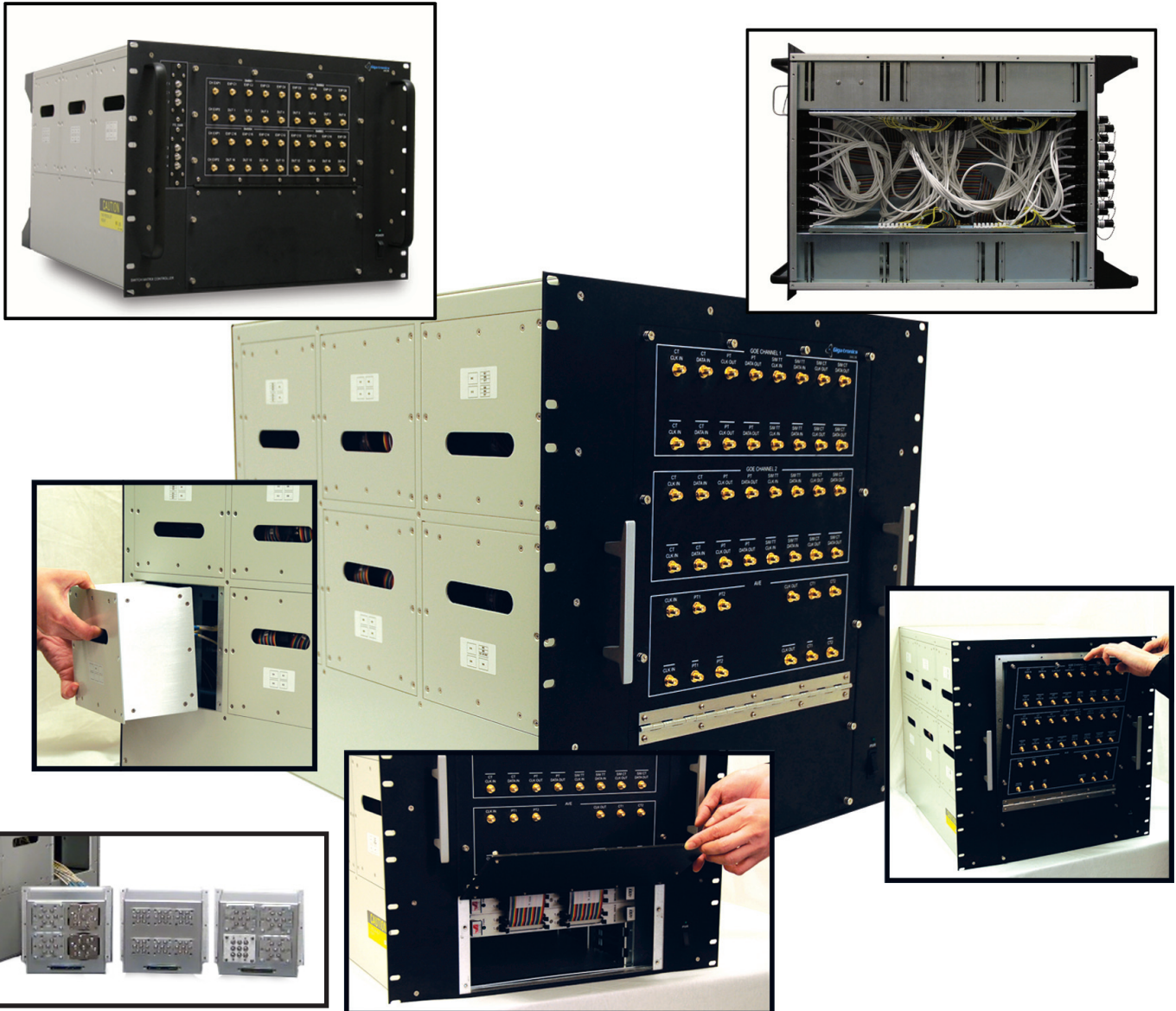# Modular Solutions

Giga-tronics Modular solutions are about Serviceability and Scalability. The modular boxes contain the replaceable components. This solution provides the lowest Mean Time to Repair on the Market.
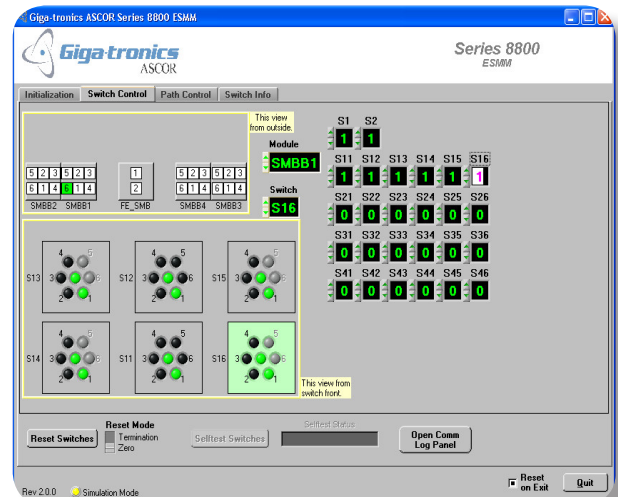
Key Features

◘ **Front/Rear Doors**– fold down for easy access to internal RF Cabling, easily replaced when re-tasking the box.

◘ **Removable Top Cover –** Allows access to internal cabling. (photo to the right)

◘ **Center Section –** Intended for running RF cabling with minimal bends to reduce insertion loss, but also provides ample space for RF Components such as Directional Couplers, Mixers, etc.

◘ **Modular Boxes –** Once RF cabling is disconnected, the boxes can be replaced quickly to put the system back into service, and the defective component in the box can be repaired offline.

◘ **Control Modules –** The lower portion of the chassis contains a four slot chassis to hold Giga-tronics 3000 Series Switching cards. These are typically used to control internal Relays and components, but can be used for other Lower Frequency applications in the System.

Software Features

◘ **Point and click and the software closes the appropriate relays.**

◘ **Relay closure counter for preventative maintenance.**

◘ **Path storage and recall to simplify test development.**

◘ **Manual control with position indicator lights for troubleshooting.**

RF Switches

Although the front panels can be modified to accommodate a variety of Switch Manufacturers, Giga-tronics recommends the highest quality relays with the following general specifications:

◘ 4, 8, 12, 18, 26, 40 GHz Freq Ranges

◘ Amplitude Repeatability 0.03 dB

◘ 10 Million Switching Cycles

◘ Insertion Loss 0.5 dB (18 GHz)

◘ Isolation 60 dB (18 GHz)

◘ VSWR 1.5 (18 GHz)

◘ Max Power 100W (18 GHz)