Structured Materials Industries, Inc.

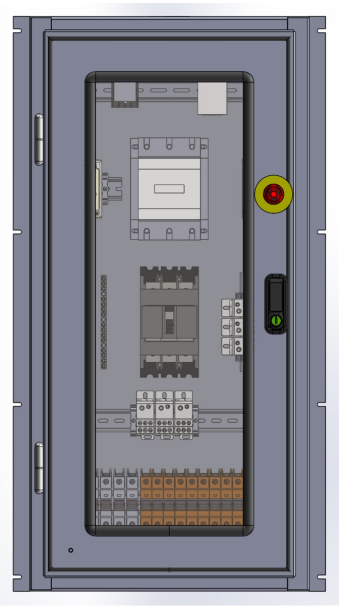
SMI Rack Mounted "Nema Style" Custom Boxes

Structured Materials Industries, Inc. (SMI) provides rack mounting solutions for electrical power interfaces (also known as load centers) for research and production systems. These boxes are highly customizable with a wide array of rack sizes, materials, coatings/coloring, and door types to select from. They are compatible with prototype and research tools, thin film deposition systems, as well as other semiconductor production equipment. There durability, small footprint, and clean design make the SMI "Nema Style" Custom Box the ideal source for housing electrical components, controllers, sensors, and so on.

Specifications:

- Rack Sizes: Standard at 3U, 5U, 7U, 8U, 10U, 15U, or 20U; or Custom Sizes
- Material: Stainless Steel or Aluminum
- Coatings: Uncoated, Black, Grey, or Custom; one-line color, one line type
- Paint type: Baked, Epoxy, Resign coat (standard)
- Door Type: Plain Panel, Windowed, Latching, or Latching with Lock
- Dimensions: 19"W Standard
- Voltage Options: 120VAC, 208/220/240VAC, 380VAC, 480VAC
- Rear and/or side Cable Access
- Hardware sets (mounting nuts and screws)

From Design to Product



The images above show an SMI designed (left) and fabricated (right) Rack Mounted "Nema Style" Custom Box.

Nema Box Options:

- Pre-mounted DIN Rails
- Pre-mounted Breaker/EMO Circuit
- Cover Panels
- Indicator Lights
- Box Lights

- Cooling Fans
- Sensors
- EMO Button
- Locking Door Handles
- On-site installation

Dow nload Brochure

Structured Materials Industries, Inc. (SMI), with over 60 fielded MOCVD tools and 10 MOCVD, CST, FB-CVD, HVPE, and ALD process demonstration tools in-house, has extensive result oriented experience in providing materials, hardware, and device assistance to other businesses as well as research organizations. SMI is a leading provider of thin film research and development MOCVD, PECVD, and ALD deposition systems for electronic, optical and electro-optic device fabrication, among other applications. We produce systems for research and production, in sizes ranging from stand-alone systems to high volume production tools. SMI also maintains an in-house applications laboratory, with facilities for materials characterization and device fabrication that is used to support our customers material development efforts.

Structured Materials Industries, Inc. has an extensive history in working with customer/partners to deliver results in SBIR/STTR and other awards. We can provide a support infrastructure for writing award winning proposals and provide the physical support infrastructure for carrying out awarded programs through completing customer innovations or calling on collaborators to fullfill innovations. We are always open to confidentially exploring additional partnerships and collaborations. SMI has worked on various projects featuring Gallium Oxide (in addition to other oxides), TMDs, AlGaN, InGaN, BN, Compound Semiconductors, Dielectrics, Ferroelectrics, Phase Change Chalcogenides, Carbides, Diamond, Battery and Fuel Cell Electrodes, Graphene, CNTs, Other Nanowires, Fuel Cell Materials, Thin Film Batteries, Metals, and so on as well as has grown materials on a diverse set of substrates using in-house tools.

To take advantage of SMI material development or consulting services contact us today to get more information and quoted. SMI is also happy to participate in the development of proposals and budgetary quotations. Sign up today to become an SMI Follower!

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