

MobiRack Offers
Mobile, All-in-One
Data Center
Capabilities for
Field Deployment

KEY FEATURES

**Compact, Light Weight
Half-depth Server and
Storage Solutions**

**Ability to Handle AC
Power Disruptions in
Non-Ideal
Usage Environments**

Via DC power
distribution technologies
including Battery Back
Ups, rectifier shelves and
ultra-high efficiency DC
power supplies

**Fast, Easy Deployments
in Space Constrained
Environments**

Via accessible, front-facing
components and cabling

Configuration Flexibility

Large selection of build-
to-order Intel and AMD-
based server and storage
solutions, MobiRack
enclosures and options

Solution Scalability

Broad portfolio of mobile
data center enclosures
ranging from compact
(5U and 11U) to midrange
(14U and 16U)
configurations

**Eco-Logical™ and Cost
Effective Server and
Storage Designs**

SGI® MobiRack™ Mobile Data Center Enclosures



Bye Bye Brick and Mortar

Today's data center deployments should no longer be limited to the physical confines of fixed, "brick and mortar" facilities. Examples of such modern, fleet-of-foot data center deployments include emergency response situations in disaster areas, office deployments, scientific and engineering exploration projects, research and development endeavors, mobility for major events and trade shows and a wide range of military applications. Common across these diverse use models is the need for all-in-one solutions that offer customers extreme mobility, configuration flexibility, modularity, ruggedness and the ability to deploy quickly.

MobiRack™ enclosures are available in compact (5U and 11U) and midrange (14U and 16U) mobile data center configurations. MobiRack's mobility and robust features strengthen SGI's broad portfolio of deployed data center products.

Built for Superior Structural Integrity

Aircraft-quality, tempered aluminum racks provide unmatched structural integrity. MobiRack outer shells and lids are fabricated with "roto-molded" rugged plastic and feature molded stacking ribs for secure stacking during transport. MobiRack exceeds Air Transport Association (ATA), Spec 200, Category 1 requirements.

Enclosures have reinforced corners and edges with up to 20% more material to protect high stress areas.

All fasteners are fully recessed to protect them from external impact damage. Positive anti-shear locks prevent case lids from separating even after impact.

Best in Class Environmental Protection

MobiRack provides advanced environmental wind, splash and rain protection via molded, tongue-and-groove gasket seals and offer airtight/watertight protection gauges as options. High grade shocks offer protection for equipment up to 340 lbs.

Configuration Flexibility

MobiRack enclosures are available in 5U, 11U, 14U and 16U configurations. The enclosures offer an impressively rich array of options from visual choices (colors, labels, custom stenciling) to functional (removable rack, choice of handles, trays, drawers, shelves, shocks, storage pouches, coupling catches, support rails, etc.) to environmental controls like airtight/watertight functionality or humidity indicator gauges. When you combine all of this with SGI's custom-built Intel and AMD-based half depth servers, storage systems, power distribution infrastructure (including power distribution units (PDUs), batteries and rectifiers) and SGI's build-to-order business model, one can clearly see the maximized configuration flexibility that is available from SGI.



SGI MobiRack Mobile Data Center Enclosures

MobiRack Offers Mobile, All-in-one Data Center Capabilities for Field Deployments

MobiRack™ MR1000 Mobile Data Center Enclosures

Case	Std Color	Rack Depth (in)	Rack Width (in)	Lid Depth F/B (in)	Enclosure Depth O.D. (in)	Enclosure Width O.D. (in)	Enclosure Height O.D. (in)	Enclosure Weight (lbs)
MR1000- 5U	Gray	20	19	2.50/2.50	32.0	27.0	16.6	52
MR1000- 11U	Gray	25	19	5.25/5.25	40.4	27.0	27.9	81
MR1000- 14U	Gray	25	19	5.25/5.25	40.4	27.0	33.0	83
MR1000- 16U	Gray	24	19	4.50/4.50	36.75	27.5	39.0	121

MobiRack MR1000 Mobile Data Center Enclosures Supported Configurations

Enclosure Model	MR1000-5U	MR1000-11U	MR1000-14U	MR1000-16U
Supported Server Models	All half depth 1U & 2U Intel or AMD based server models with wide selection of dual socket server boards	All half depth 1U & 2U Intel or AMD based server models with wide selection of dual socket server boards	All half depth 1U & 2U Intel or AMD based server models with wide selection of dual socket server boards	All half depth 1U & 2U Intel or AMD based server models with wide selection of dual socket server boards
No. of Servers / Enclosure	Up to 5x1U or 2x 2U	Up to 11x1U or 5x 2U	Up to 14x1U or 7x 2U	Up to 16x1U or 8x 2U
No. of Boards / Enclosure	Up to 5	Up to 11	Up to 14	Up to 16
No. of Processor (& Cores) / Enclosure	Up to 10 (40)	Up to 22 (88)	Up to 28 (112)	Up to 32 (128)
Max No. of 3.5" Drives / Enclosure	Up to 10 SAS/SATAII DAS Drives (10TB)	Up to 25 SAS/SATAII DAS Drives (25TB)	Up to 35 SAS/SATAII DAS Drives (35TB)	Up to 40 SAS/SATAII DAS Drives (40TB)
Server Mounting	Fixed via brackets (standard)	Fixed via brackets (standard)	Fixed via brackets (standard)	Fixed via brackets (standard)
Thermal Management	Front to back cooling up to 95°F ambient temperature. Servers must have internal cooling fans & enclosure lids must remain removed for proper operation	Front to back cooling up to 95°F ambient temperature. Servers must have internal cooling fans & enclosure lids must remain removed for proper operation	Front to back cooling up to 95°F ambient temperature. Servers must have internal cooling fans & enclosure lids must remain removed for proper operation	Front to back cooling up to 95°F ambient temperature. Servers must have internal cooling fans & enclosure lids must remain removed for proper operation
Enclosure Input Power	Expected nominal 110VAC	Expected nominal 110VAC with PDU support option at enclosure level	Expected nominal 110VAC with PDU support option at enclosure level	Expected nominal 110VAC with PDU support option at enclosure level
Server Input Power	AC only	AC or DC depending on config.	AC or DC depending on config.	DC. Contact Factory for AC support
Back Up DC Power Infrastructure Option	No due to space limitations	Yes. Rectifiers, Battery Back Up Unit (BBU)	Yes. Rectifiers, Battery Back Up Unit (BBU)	Yes. Rectifiers, Battery Back Up Unit (BBU)
Cable Management	Front (IO) or rear cabling (Power)	Front (IO) or rear cabling (Power)	Front (IO) or rear cabling (Power)	Front (IO) or rear cabling (Power)
Enclosure Weight Support	Up to 340 Lbs	Up to 340 Lbs	Upt to 340 Lbs	Up to 300 Lbs
Peripheral Support Options (Switches, JBOD)	Yes. Consult with factory on tested configurations and weight	Yes. Consult with factory on tested configurations and weight	Yes. Consult with factory on tested configurations and weight	Yes. Consult with factory on tested configurations and weight

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