



Powering the
SiC evolution™

SemiQ QSiC™ Dual3 Modules

Features

- 62mm x 152mm industry standard footprint
- High speed switching SiC MOSFETs
- Freewheeling SiC SBD with zero reverse recovery
- All parts tested to above 1350V
- Kelvin reference for stable operation
- ZTA isolated baseplate

Applications

- Motor drives
- EV applications
- Smart-grid
- Uninterruptible power supply (UPS)
- Chiller for AI datacenter

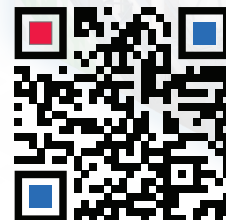
Benefits

- Low switching losses
- Low junction to case thermal resistance
- Very rugged and easy mounting
- Direct mounting to heatsink (isolated package)
- Lower QRR at high temperature



QSiC™ Dual3 Modules

Part Number	V _{DC}	R _{DS(ON)}	Package
GCMX1P0B120S4B1	1200 V	1 mΩ	S4B1 Half Bridge
GCMX1P4B120S4B1	1200 V	1.4 mΩ	S4B1 Half Bridge
GCMX2P0B120S4B1	1200 V	2 mΩ	S4B1 Half Bridge
GCMS1P0B120S4B1	1200 V	1 mΩ	S4B1 Half Bridge
GCMS1P4B120S4B1	1200 V	1.4 mΩ	S4B1 Half Bridge
GCMS2P0B120S4B1	1200 V	2 mΩ	S4B1 Half Bridge





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Power Solutions for High-Performance AI Data Center Liquid Cooling

SemiQ QSiCDual3 modules are designed for high-efficiency 250 kW liquid chiller applications, supporting both Active Front-End (AFE) and compressor driver systems.

These modules deliver robust performance, reliability, and power density, making them ideal for AI data center cooling infrastructure.

