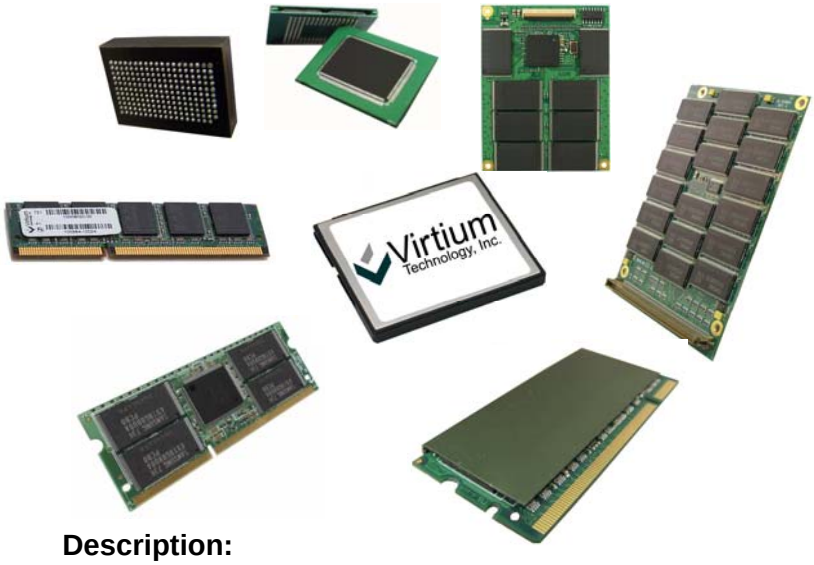
Extended Temperature & Rugged Modules

Ruggedized Features:

- Temperature Screening
  - Industrial Extended-Temp: -40C to +85C
- Thermal heat-spreader on Memory

Available Options:

- Conformal coating qualified under MIL-I-46058C
- Under-fill
- Thermal sensor
- Industrial grade components
- PCB edge-mounted cooling pads for heatframes and chassis wedgelocks
- Heatsink/heatpipe cooling
- Higher speed grade components & overclock testing for extra timing guardband



Description:

Virtium's ruggedized products are available in a wide range of form factors, memory densities, storage capacities and data transfer rates.

These rugged products are designed to operate at extreme temperatures, in high shock and vibration as well as hostile environmental conditions.

Products and Form Factors:

- Industrial CompactFlash
- Rugged Slim SSD's
- SODIMMs (for DDR2, DDR3)
- Registered DIMMs
- Mini DIMMs
- Unbuffered DIMMs
- Multi-Chip Packages (MCP)

Features:

- Superior Thermal Performance
  - Operate in -40°C to +85°C ambient air
- Functional at high shock and vibration
- Protection for Hostile Environments
  - Dielectric ESD protection
  - Resistance to fungus or corrosion
  - Withstands salt spray, condensation, caustic gases, chemicals, solvents
- Excellent Electrical Properties
  - Robust Timing guard-band on setup/hold

Benefits:

- High Memory Densities at Ultra Low Profiles
- Large Solid-State Flash Storage Capacities
- Lead-free, RoHS compliant and Green
- Low Power Consumption
- JEDEC Standard Interface/Interconnects

Applications:

- Single Board Computers
- Embedded Computing Platforms
- Telecommunication Servers
- Networking & Storage Appliances
- Military & Aerospace Systems
- Mobile computer systems
- Industrial Automation
- Medical, Science and Research
- Law Enforcement & Government Agencies
- Oil and Gas Exploration
- Marine and Navigation

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