SSD/104 SATA

Connect Tech’s SSD/104 SATA is a complete rugged stackable storage solution that allows up to two mSATA SSD modules to be installed into any PC/104-Plus, PCI-104, PCI/104-Express and PCIe/104 stack or embedded system. SSD/104 SATA improves performance, expands storage capacity and reduces overall storage footprint in an embedded system.

Designed with the latest generation of mSATA SSD modules, SSD/104 SATA can be easily upgraded to accommodate future generations of mSATA modules for even greater system capacity and performance.

When combined with mSATA SSD modules, SSD/104 SATA directly interfaces with the standard SATA bus, which can be used as a drop-in replacement for any SATA storage device. SSD/104 SATA can also be interfaced with any single board computer or embedded system using standard 7-pin SATA.

SSD/104 SATA is available as a complete storage solution with a preinstalled mSATA module, or as a separate mSATA carrier which supports any mSATA SSD module.

### Specifications

**Storage Capacity**
- 4GB, 8GB, 16GB, 32GB, 64GB or 128GB
- Up to 256GB maximum using 2 mSATA modules or more with future generations of mSATA modules

**Flash Type**
- SLC or MLC

**Power Requirement**
- +3.3V / 0.5A maximum through PCIe/104 bus, PCI-104 bus or external connector

**Power**
- Supply Voltage: +3.3V ±5%
- Low Power Consumption: 260mA (Active) / 130 mA (Idle)

**Power Source**
- PCIe/104 bus, PCI-104 bus or external power connector

**Interface**
- Supports all SATA generations:
  - SATA I - 1.5Gbps 150MB/s
  - SATA II - 3Gbps 300MB/s
  - SATA III - 6Gbps 600MB/s
- Compatible with any SBC SATA port

**Dimensions**
- SSD/104 Carrier: 3.550” x 3.775” (90.17mm x 95.89mm),
  - PC/104 Compliant
- mSATA SSD Module: 2.000” x 1.175” (50.80mm x 29.85mm),
  - JEDEC 300-MB Compliant, Mini PCIe Form Factor Compliant

**Connectors**
- Standard Right Angle 7-pin SATA data connectors
- mSATA Connectors
- 3.5mm pitch Phoenix Type power connector
- PCI-104 or PCIe/104 stacking connectors (optional)

**Build Options**
- PCI/104-Express (SDG001)
  - Both PCIe/104 and PCI-104 stacking connectors installed
- PCIe/104 (SDG002)
  - Only the PCIe/104 stacking connector is installed
- PCI-104 (SDG003)
  - Only the PCI-104 stacking connector is installed
- No Bus (SDG004)
  - No stacking bus connectors installed

**Cable-Free Operation**
- SATA signals from PCIe/104 or PCI/104-Express Type 2 SBC

**mSATA SSD ports**
- Up to 2 mSATA SSD modules

**Operating Temperature**
- **Industrial**: -40°C to +85°C (-40°F to 185°F)
- **Commercial**: 0°C to 70°C (32°F to 158°F)

**Warranty and Support**
- Limited two-year warranty and free technical support

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**Features**

- **Storage capacity range from 4GB to +256GB**
- **Supports up to two mSATA SSD Modules**
- **SATA signals from any PCIe/104 or PCI/104-Express Type 2 SBC eliminates the need for SATA cables**

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RoHS
Specifications subject to change without notice.
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