

Innocard

# Minerva

**GD9801G**

SlimSAS 8i *PCIe 4.0* for M.2 Dual Ports with 3.5" Enclosure



## SlimSAS 8i **PCIe 4.0** for M.2 Dual Ports with 3.5" Enclosure

### Features

- ※ M.2 dual port to SlimSAS 8i(SFF-8654) convert
- ※ Built-in SFF-8654 8i connector, pin-out defined by SFF-9402 Rev1.1
- ※ Built-in two M.2 M-key connector
- ※ PWM synchronous buck converter Power for M.2 dual ports SSD
  - ◆ 8A maximum output current
  - ◆ Over Current Protection
  - ◆ Under Voltage Protection
  - ◆ Under voltage lock out protection (UVLO) monitors
  - ◆ Thermal shutdown protection
  - ◆ ESD Human Body Mode(HBM)/2KV
- ※ Built-in two 3.3V Hot Plug Power with eFuse protection for M.2 dual ports
  - ◆ Programmable Current Limit: 6.5A
  - ◆ Programmable Inrush Current Slew Rate
  - ◆ Thermal shutdown protection and fault alert
  - ◆ Back-to-Back (B2B) FET Operation
- ※ Supports M.2 to PCIe CLKREQ#, WAKE#
- ※ Supports M.2 /1.8V to PCIe/3.3V SMB\_CLK, SMBDATA Level Shift
- ※ Supports M.2 /1.8V to PCIe /3.3V SMB\_CLK, SMB\_DATA isolated, repeater
- ※ LED5, LED6 Green LED on indicates M.2 NVMe SSD power ready
- ※ LED1, LED2 RED LED Blinking indicates M.2 active status

### Specifications

- ※ Compliant with NVM Express 1.3a
- ※ Support PCI Express Base Specification Rev 4.0
- ※ Support SSD\_Form\_Factor\_Version1\_a
- ※ Compliant with PCI Express M.2 Specification Version 1.2
- ※ Compliant with SFF-TA-1001 Rev1.1
- ※ Compliant with SFF-8654 Rev1.2
- ※ Compliant with SFF-9402 Rev1.1

### Supports the following form factor M.2(NGFF) SSD

- ※ Type 2242-D2-B-M: 42mm(L) x 22mm(W)
- ※ Type 2260-D2-B-M: 60mm(L) x 22mm(W)
- ※ Type 2280-D2-B-M: 80mm(L) x 22mm(W)
- ※ Type 22110-D2-B-M: 110mm(L) x 22mm(W)

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## Supports the following Broadcom series products

- ※ Broadcom 96xx PCIe 4.0, 24G SAS MegaRAID and eHBA Tri-Mode Storage Adapters:
  - MegaRAID 9670W-16i
  - MegaRAID 9670-24i
  - MegaRAID 9660-16i
  - eHBA 9620-16i
  - eHBA 9600-24i
  - eHBA 9600-16i
  - eHBA 9600-8e8i
  
- ※ Broadcom 95xx PCIe 4.0 MegaRAID and HBA Tri-Mode Storage Adapters:
  - MegaRAID 9560-16i
  - MegaRAID 9560-8i
  - MegaRAID 9580-8i8e
  - HBA 9500-16i
  - HBA 9500-8i
  - P411W-32P

## Block Diagram

