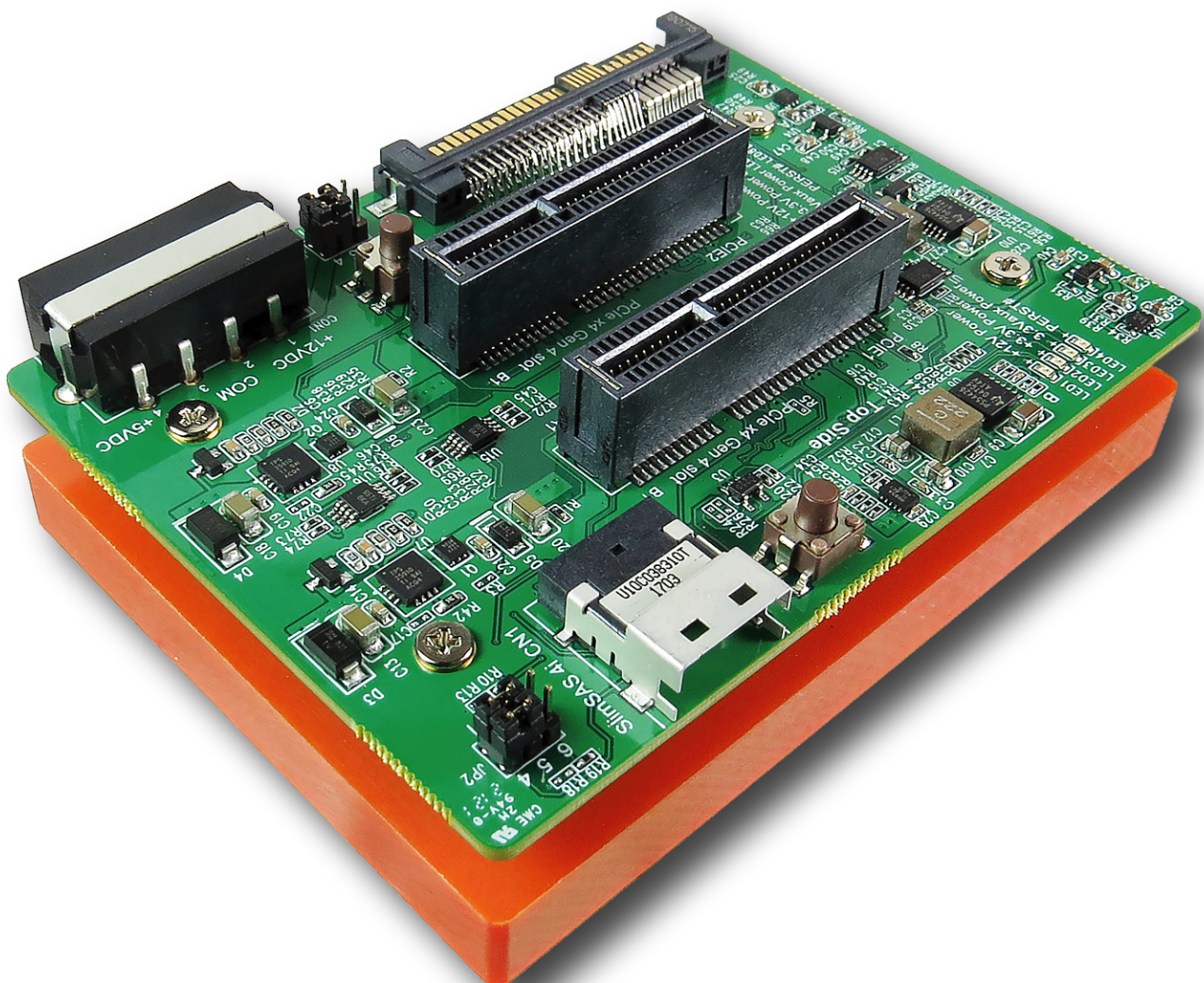




# Minerva

## GD0804A

**SlimSAS 4i (SFF-8654) to PCIe x4 slot  
and U.2 (SFF-8639) to PCIe x4 slot Adapter**



# SlimSAS 4i (SFF-8654) to PCIe x4 slot and U.2 (SFF-8639) to PCIe x4 slot Adapter

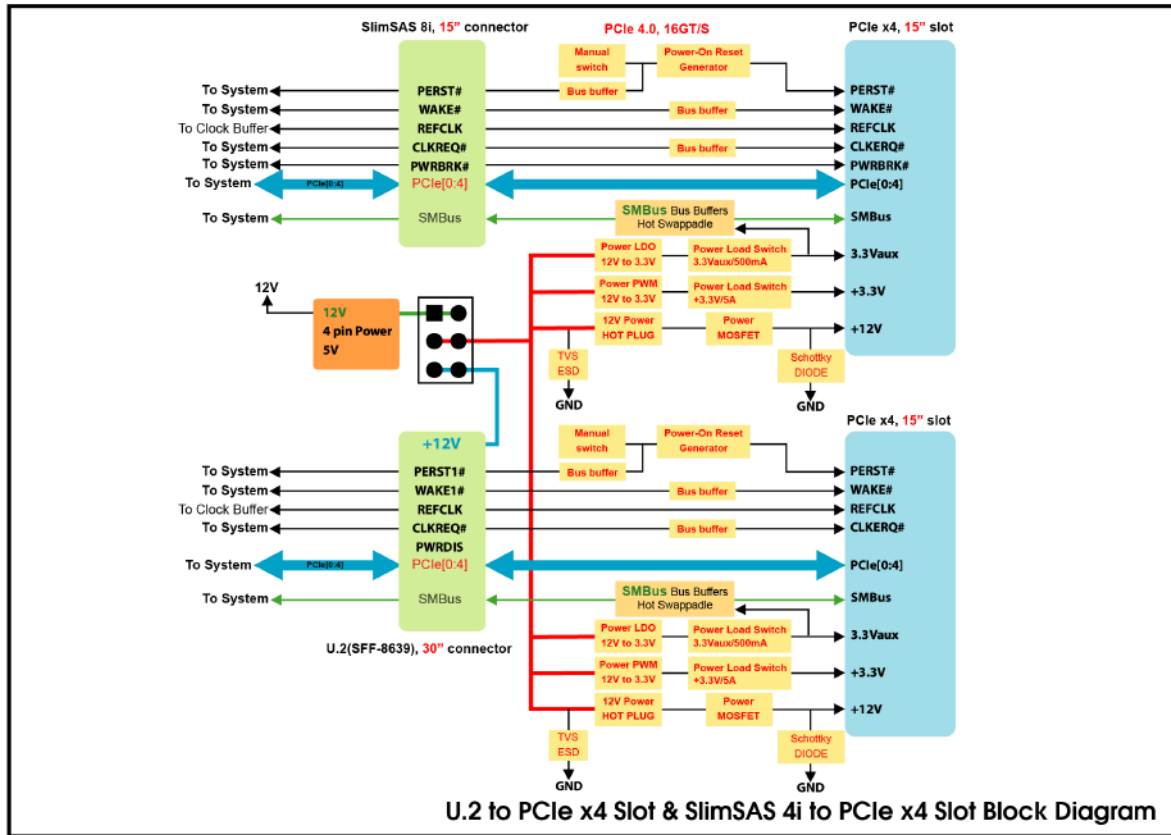
## Features

- ※ U.2(SFF-8639) to PCIe x4 convert
- ※ SlimSAS 4i(SFF-8654) to PCIe x4 convert
- ※ Built-in SFF-8639 connector, pin-out defined by SFF-9402 Rev1.1
- ※ Built-in SFF-8654 4i connector, pin-out defined by SFF-9402 Rev1.1
- ※ Built-in PCIe x4 Slot x2
- ※ Built-in +12V Hot Plug Power with eFuse protection for PCIe +12V
  - ◆ Programmable Current Limit: 6.5A
  - ◆ Programmable Inrush Current Slew Rate
  - ◆ Thermal shutdown protection and fault alert
  - ◆ Back-to-Back (B2B) FET Operation
- ※ PWM synchronous 12V to 3.3V buck converter Power
  - ◆ 4A 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 3.3V Power Load Switch for PCIe +3.3V
- ※ 12V to 3.3V LDO buck converter Power
- ※ Built-in 3.3V Power Load Switch for PCIe 3.3Vaux
- ※ Built-in SMBus Hot Swappable 2-Wire Bus Buffer
- ※ Supports SlimSAS 4i BP\_TYPEA, BP\_TYPEB Pull up for Broadcom 95xx PCIe 4.0 MegaRAID and HBA Tri-Mode Storage Adapters
- ※ Supports SlimSAS 4i CPRSNTA#, CPRSNTB# Pull Low for Broadcom 95xx PCIe 4.0 MegaRAID and HBA Tri-Mode Storage Adapters
- ※ LED1, LED5 PCIe +12V power ready
- ※ LED2, LED6 PCIe +3.3V power ready
- ※ LED3, LED7 PCIe 3.3Vaux power ready
- ※ LED4, LED8 PCIe PERST#

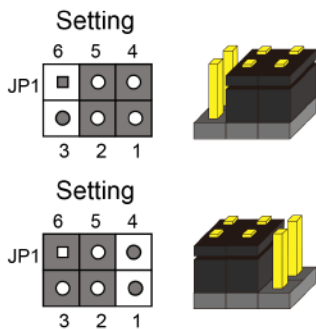
## Specifications

- ※ Support PCI Express Base Specification Rev 4.0
- ※ Compliant with PCIe\_CEM\_SPEC\_R4\_V1\_0\_08072019\_NCB
- ※ Compliant with SFF-8654 Rev1.2
- ※ Compliant with SFF-9402 Rev1.1
- ※ Support Broadcom Compliant with SFF-9402 Rev1.1

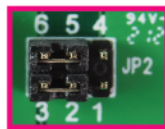
# SlimSAS 4i (SFF-8654) to PCIe x4 slot and U.2 (SFF-8639) to PCIe x4 slot Adapter



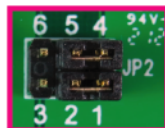
## GD0804A Jumper Application



### JP2 SETUP

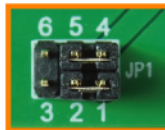


1-2	ON	PWRBRK#@Connect PCIe B30 pin to SlimSAS 8i A8,A29 pin
4-5	ON	CLKREQ#@Connect PCIe B12 pin to SlimSAS 8i B12,B33 pin

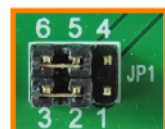


2-3	ON	for Broadcom 95xx Sereis MegaRAID and HBA Tri-Mode Storage Adapters
5-6	ON	for Broadcom 95xx Sereis MegaRAID and HBA Tri-Mode Storage Adapters

### JP1 SETUP



1-2 & 4-5	ON	Power input From H.D.D 4 pin
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2-3 & 5-6	ON	Power input From U.2
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