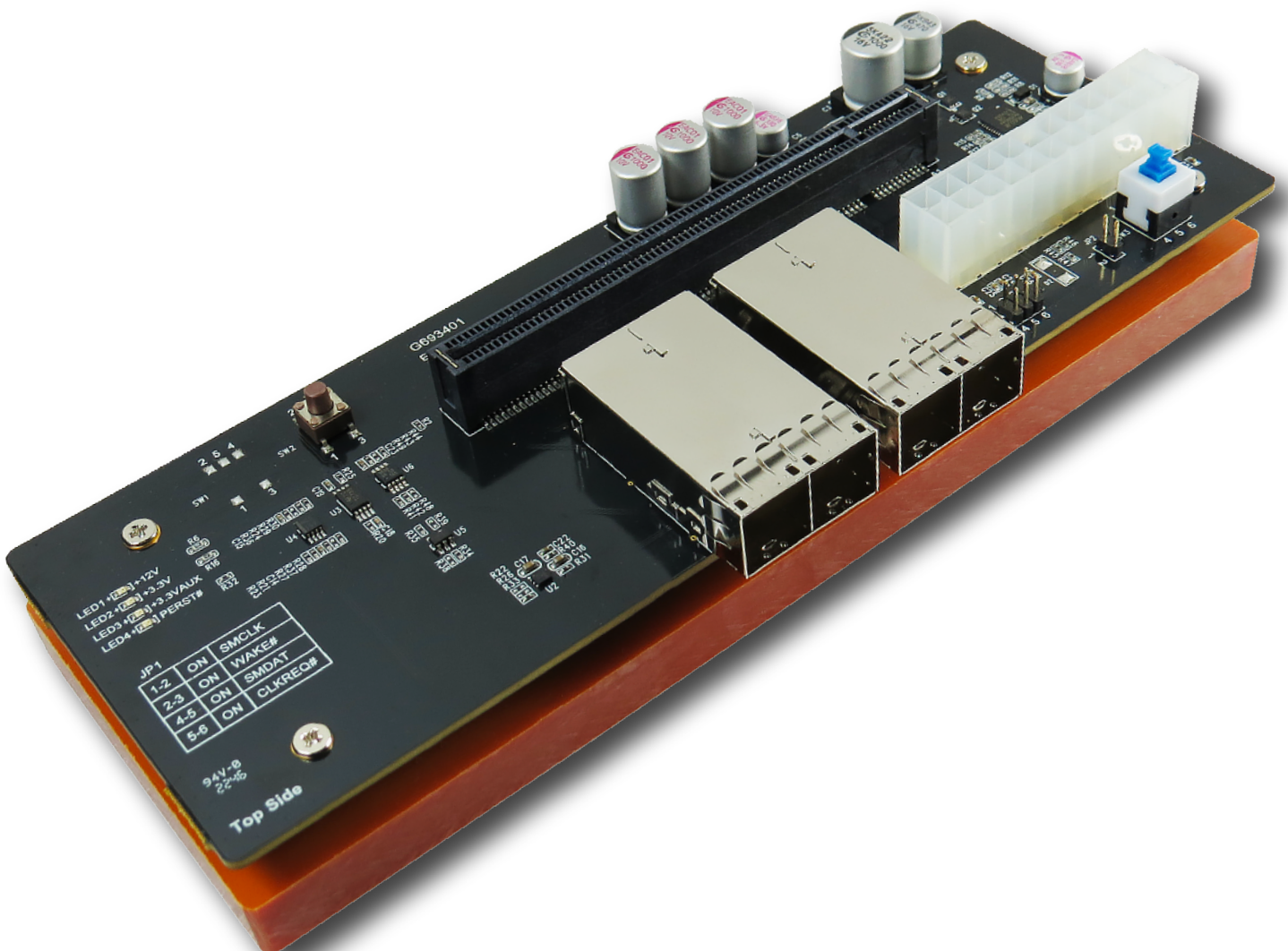


Innocard

# Minerva

## GD1606A

External Mini SAS HD 1x2, 4X(SFF-8674) Dual-Port  
to PCIe x16 Gen4 slot Adapter



# SFF-8674 1x2, 4XDual-Port to PCIe x16 Gen4 slot Adapter

## Features

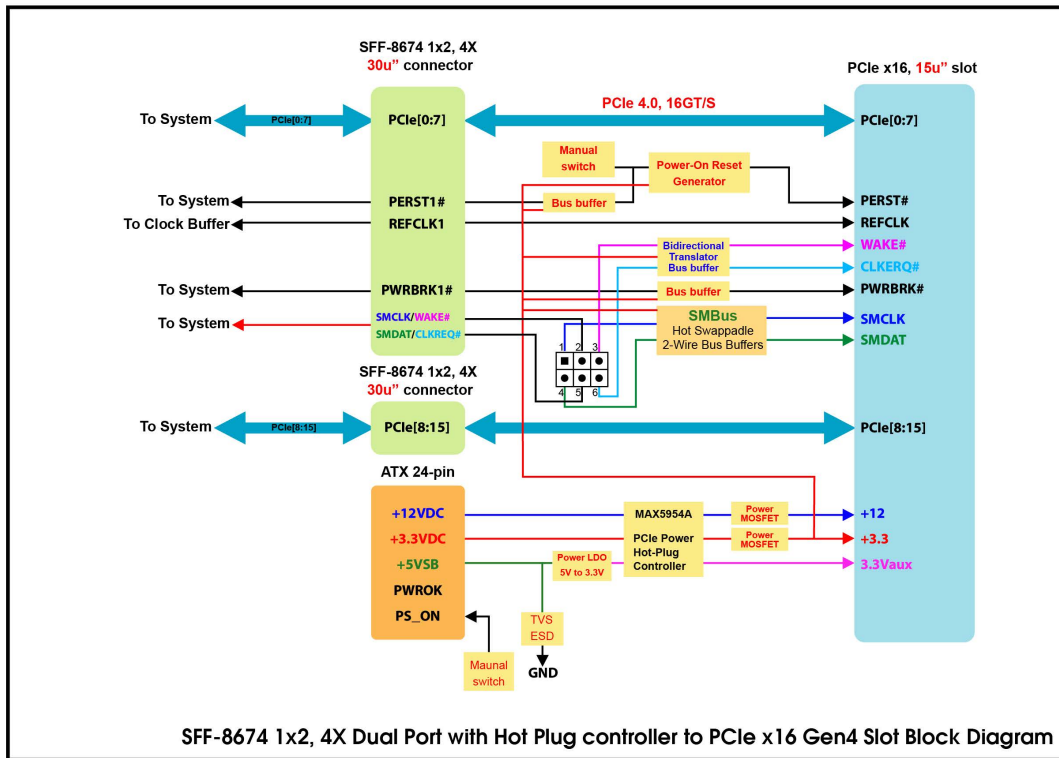
- ※ SFF-8674 1x2, 4X dual port to PCIe x16 signals extension
  - ※ Built-in ATX 24-pin Power supply connector
    - ◆ +5VSB Input with Bidirectional TVS(TRANSIENT VOLTAGE SUPPRESSOR)
    - ◆ Manul Switch ON or Jumper Short for ATX 24-pin Power supply ON
  - ※ Built-in SFF-8674 1x2, 4X with 30u"(0.76um) min Au mating area plating x2 pcs
  - ※ Built-in PCIe 4.0 x16 Slot with 15 u"(0.38um) min Au mating area plating
  - ※ Built-in MAX5954A PCI Express Power Hot-Plug Controller
    - ◆ Hot Swaps +12V, +3.3V, and 3.3V Auxiliary Power Rail
    - ◆ Active Current Limiting Protects Against Overcurrent/ Short-Circuit Conditions
    - ◆ Drives two external n-channel MOSFETs to control the +12V and +3.3V main outputs
  - ※ Built-in Conductive Polymer Aluminum Solid Capacitors
- For 75W PCIe x16 Slot Power Supply Rail Requirements as follows:
- ◆ +12V Voltage Supply Current Capacitive Load : 5.5 A Current, 1470  $\mu$ F
  - ◆ +3.3 Voltage Supply Current Capacitive Load : 3 A Current, 3300  $\mu$ F
  - ◆ 3.3aux Voltage Supply Current Capacitive Load : 375 mA Current, 330  $\mu$ F
- ※ Built-in SMBus Hot Swappable 2-Wire Bus Buffer
  - ※ Built-in PCIe PERST# Bus Buffer and manul switch
  - ※ Built-in PCIe WAKE# Bidirectional Translator Bus Buffer
  - ※ Built-in PCIe CLKREQ# Bidirectional Translator Bus Buffer
  - ※ Built-in PCIe PWRBRK# Bus Buffer
  - ※ LED1 Green On indicates +12V power ready for PCIe x16 Slot
  - ※ LED2 Green On indicates +3.3V power ready for PCIe x16 Slot
  - ※ LED3 Green On indicates 3.3Vaux power ready for PCIe x16 Slot
  - ※ LED4 Green On to OFF indicates PERST# Normal (Function intentionally inverted)

## Specifications

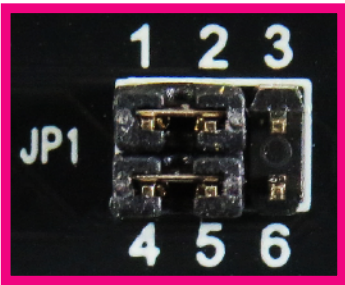
- ※ Support PCI Express Base Specification Rev 4.0
- ※ Compliant with PCIe\_CEM\_SPEC\_R4\_V1\_0\_08072019\_NCB
- ※ Compliant with SFF-TA-8614 R3.4.4\_CB
- ※ Compliant with SFF-9402 Rev1.1

# SFF-8674 1x2, 4XDual-Port to PCIe x16 Gen4 slot Adapter

## Block Diagram

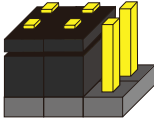


The switches settings are as noted below



Setting

	1	2	3
JP1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4	5	6



JP1 SETUP			Default setup
1-2	ON	SMCLK	
4-5	ON	SMDAT	
2-3	ON	WAKE#	
5-6	ON	CLKREQ#	

