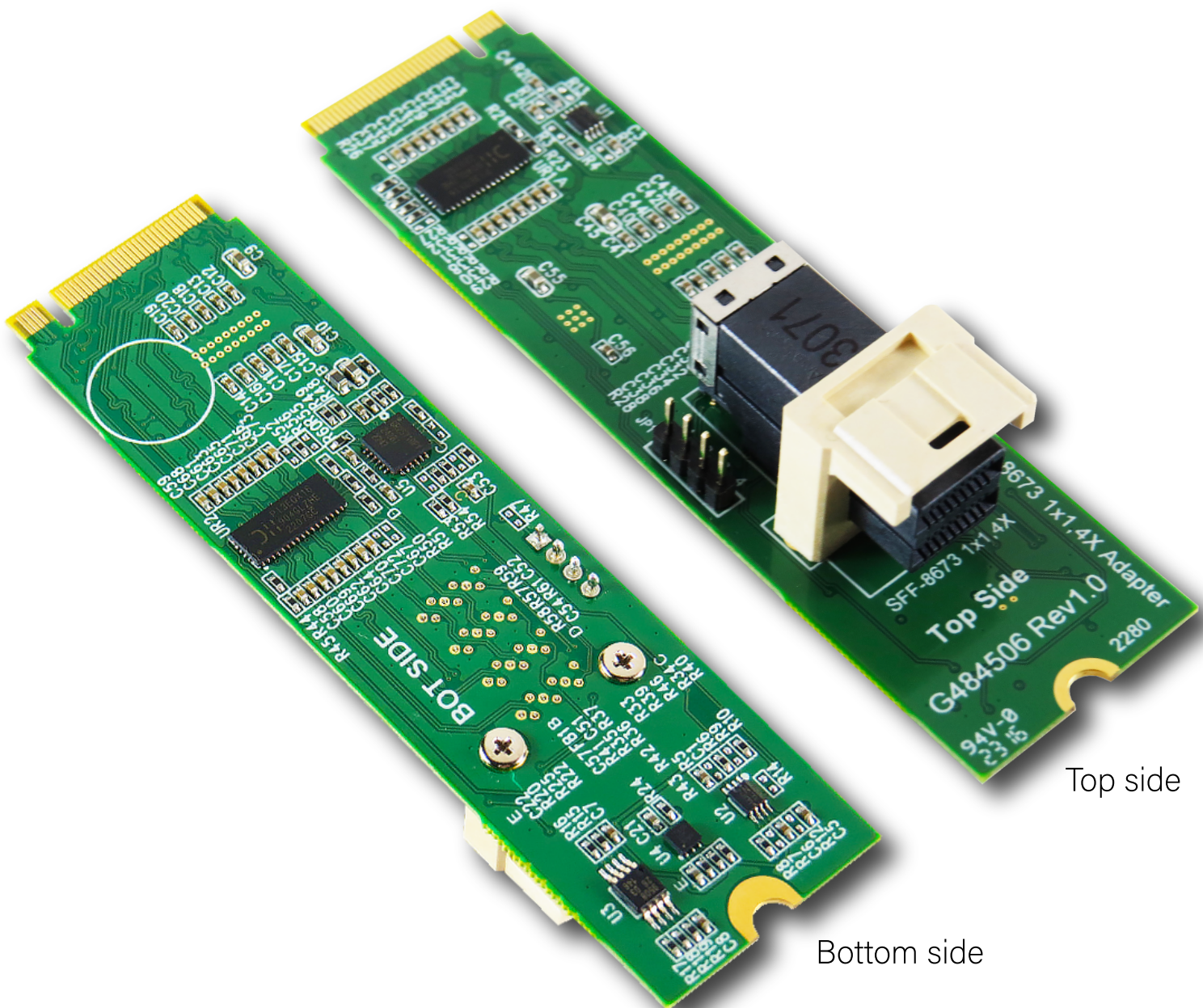


Innocard

# Minerva

## DP6705

M.2 M-key PCIe 4.0 with ReDriver to MiniSAS-HD 1x1, 4X Adapter



## M.2 M-key PCIe 4.0 with ReDriver to MiniSAS-HD 1x1, 4X Adapter

### Features

- ※ SFF-8673 1x1, 4X to M.2 PCIe 4.0 convert
- ※ Built- in SFF-8673 connector with 30u”(0.76um) min Au mating area plating
- ※ Built- in PCIe ReDriver to extend PCIe 4.0, 16GT/s differential pair signals
- ※ Built- in PCIe 100MHz Clock buffer to drive longer trace lengths and longer cable
- ※ Built- in SMBus repeater and Voltage level shift with Hot swappable level translating
- ※ Built- in PERST# Bidirectional Voltage-Level Translator, it is tied to SFF-8673 1x1, 4X B1 pin
- ※ Built- in WAKE# Bidirectional Voltage-Level Translator, it is tied to SFF-8673 1x1, 4X C1 pin
- ※ Built- in CLKREQ# Bidirectional Voltage-Level Translator, it is tied to SFF-8673 1x1, 4X B2 pin
- ※ Built- in PWRDIS Bidirectional Voltage-Level Translator, it is tied to SFF-8673 1x1, 4X C2 pin

### Specifications

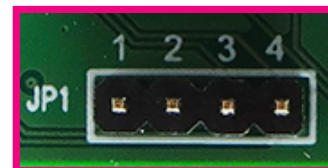
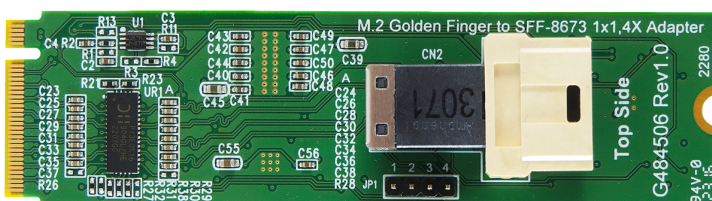
- ※ PCI Express Base Specification Rev 4.0
- ※ PCIe\_CEM\_SPEC\_R4\_V1\_0\_08072019\_NCB
- ※ Compliant with SFF-8613\_R3.5.4\_C
- ※ Compliant with SFF-9402 Specification Version 1.1
- ※ PCI Express M.2 Spec Rev4.0 Ver1.0 11052020 NCB

### Operating system support

- ※ Windows 8 &8.1
- ※ Windows 10
- ※ Windows 11
- ※ UEFI 2.3.1 or later

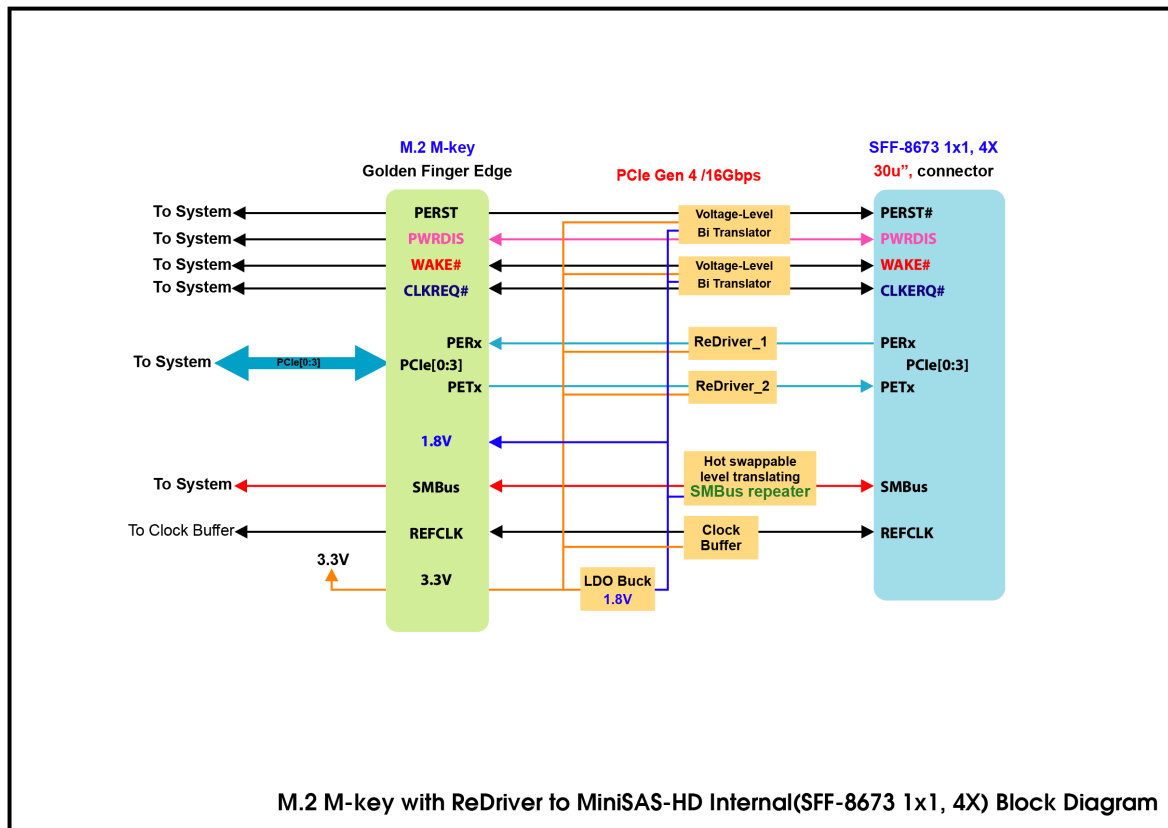
### Applications

- ※ Rack server
- ※ Microserver and Tower server
- ※ High performance computing
- ※ Hareware accelerator
- ※ Storage Controller HBA(Host Bus Adapter)
- ※ Desktop PC/motherboard



Pin	Signal
1	3.3V
2	GND
3	SMDAT
4	SMCLK

# M.2 M-key PCIe 4.0 with ReDriver to MiniSAS-HD 1x1, 4X Adapter



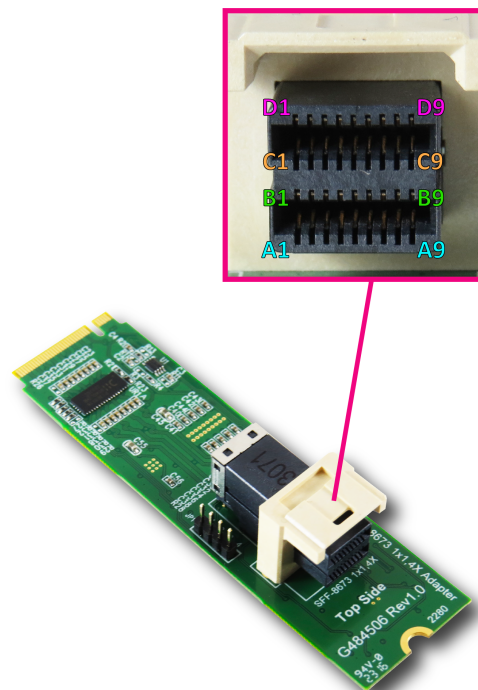
The following figure shows SFF-8673 1x2, 4X pin out

## Home host

SFF-8673 1x1, 4X following Intel pin define

Pin#	Net	Pin#	Net
A1	REFCLKp	B1	PERST#
A2	REFCLKn	B2	CLKREQ#
A3	GND	B3	GND
A4	PERp1	B4	PERp0
A5	PERn1	B5	PERn0
A6	GND	B6	GND
A7	PERp3	B7	PERp2
A8	PERn3	B8	PERn2
A9	GND	B9	GND
C1	WAKE#	D1	SMDAT
C2	BP_TYPE/PWRDIS	D2	SMCLK
C3	GND	D3	GND
C4	PETp1	D4	PETp0
C5	PETn1	D5	PETn0
C6	GND	D6	GND
C7	PETp3	D7	PETp2
C8	PETn3	D8	PETn2
C9	GND	D9	GND

PCIe 4.0 SFF-8673 1x1, 4X  
30μ" Au plating connector



Model No.: DP6705

M.2 Golden finger with Redriver to MiniSAS-HD Internal(SFF-8673 1x1, 4X) Adapter