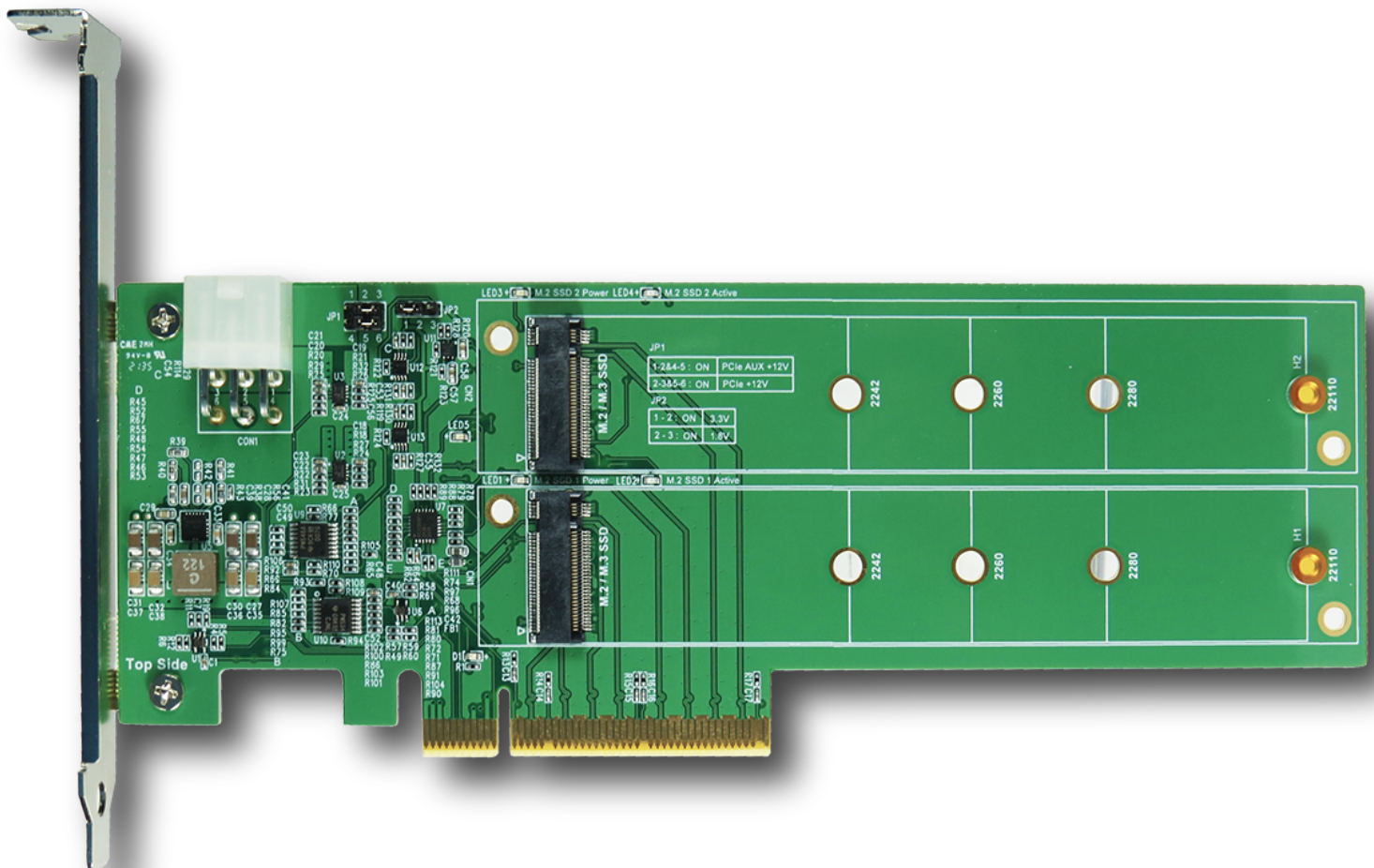


Innocard Minerva

DP8206

PCIe x8 Gen4 for bifurcated M.2 NVMe Dual port AIC



Notice:

The Mainboard with CPU and BIOS needs to support bifurcation to ensure PCIe x8 link width to bifurcate two x4 link width for M.2 NVMe SSD.

If not, DP8206 Riser Card only supports PCIe x8 link width

PCIe x8 Gen4 for bifurcated M.2 NVMe Dual port AIC

Features

- ※ M.2 NVMe to PCI Express 4.0 convert
- ※ Built-in two M.2 M-key Females connector
- ※ DP8206 can be offered in two x4 data link width configurations (need CPU and BIOS both support) for dual port M.2 connector.
- ※ Supports power input from PCIe CEM +12V or external PCIe 12V AUX Power
- ※ Supports Server BMC management
- ※ Built-in SMBus Switch(Address: **0xE2**) for M.2 SSD SMBus, Clock buffer SMBus communication
- ※ Built-in SMBus I/O Expander(Address: **0x40**) for M.2 PWRDIS control
- ※ Supports PCIe PERST# for OOB(out of band) management to remote M.2 SSD Reset
- ※ Supports 3.3V Power Rail for OOB(out of band) management to disable M.2 SSD Power
- ※ Supports PCIe REFCLK Buffer fan out(Address: **0xD8**) for M.2 dual port, it shall be buffered and fanned out to the individual M.2 module
- ※ Built-in WAKE# Auto-Direction Sensing Between PCIe CEM and M.2 SSD
- ※ Built-in CLKREQ# Auto-Direction Sensing Between PCIe CEM and M.2 SSD
- ※ PWM synchronous buck converter Power IC
 - ◆ 8A maximum output current
 - ◆ Short circuit protection
 - ◆ In-rush current suppression
 - ◆ Thermal shutdown protection
 - ◆ ESD HBM (Human Body Mode)/2KV
- ※ Each M.2 port is with 5A current Load switch Power to protect M.2 NVMe SSD
- ※ LED1, LED3 Green LED on indicates M.2 NVMe SSD power ready
- ※ LED2, LED4 RED LED Blinking indicates M.2 SSD active status

Specifications

- ※ PCI Express Base Specification Rev 4.0
- ※ PCIe_CEM_SPEC_R4_V1_0_08072019_NCB
- ※ Compliant with NVMe Express 1.3
- ※ Support SSD_Form_Factor_Version1_a
- ※ Compliant with PCI Express M.2 Specification Revision 3.0, Version 1.2

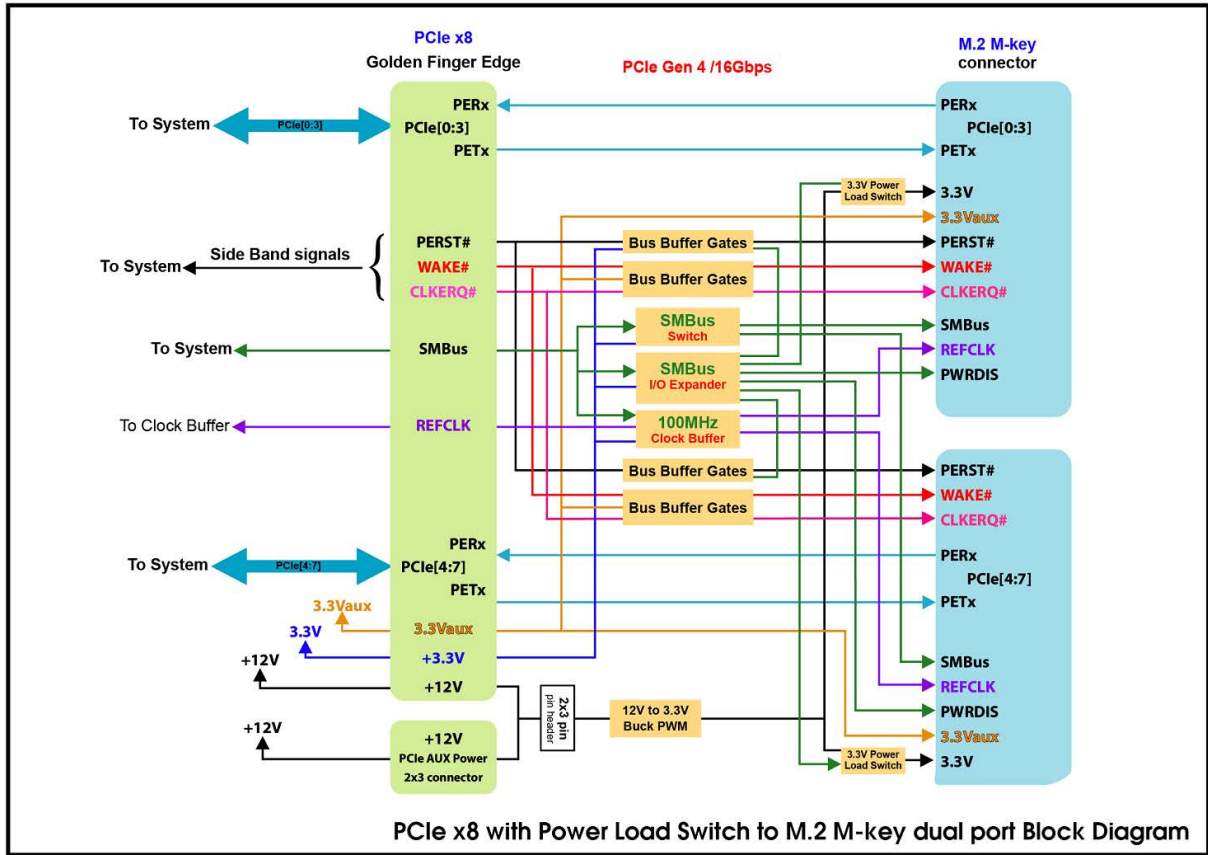
Supports the following form factor M.2 NVMe SSD

- ※ 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)

Applications

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

PCIe x8 Gen4 for bifurcated M.2 NVMe Dual port AIC



The switches settings are as noted below

Jumper Application

PCIe x8 Gen 3 to M.2 NVMe SSD Dual Port Adapter with heat sink

