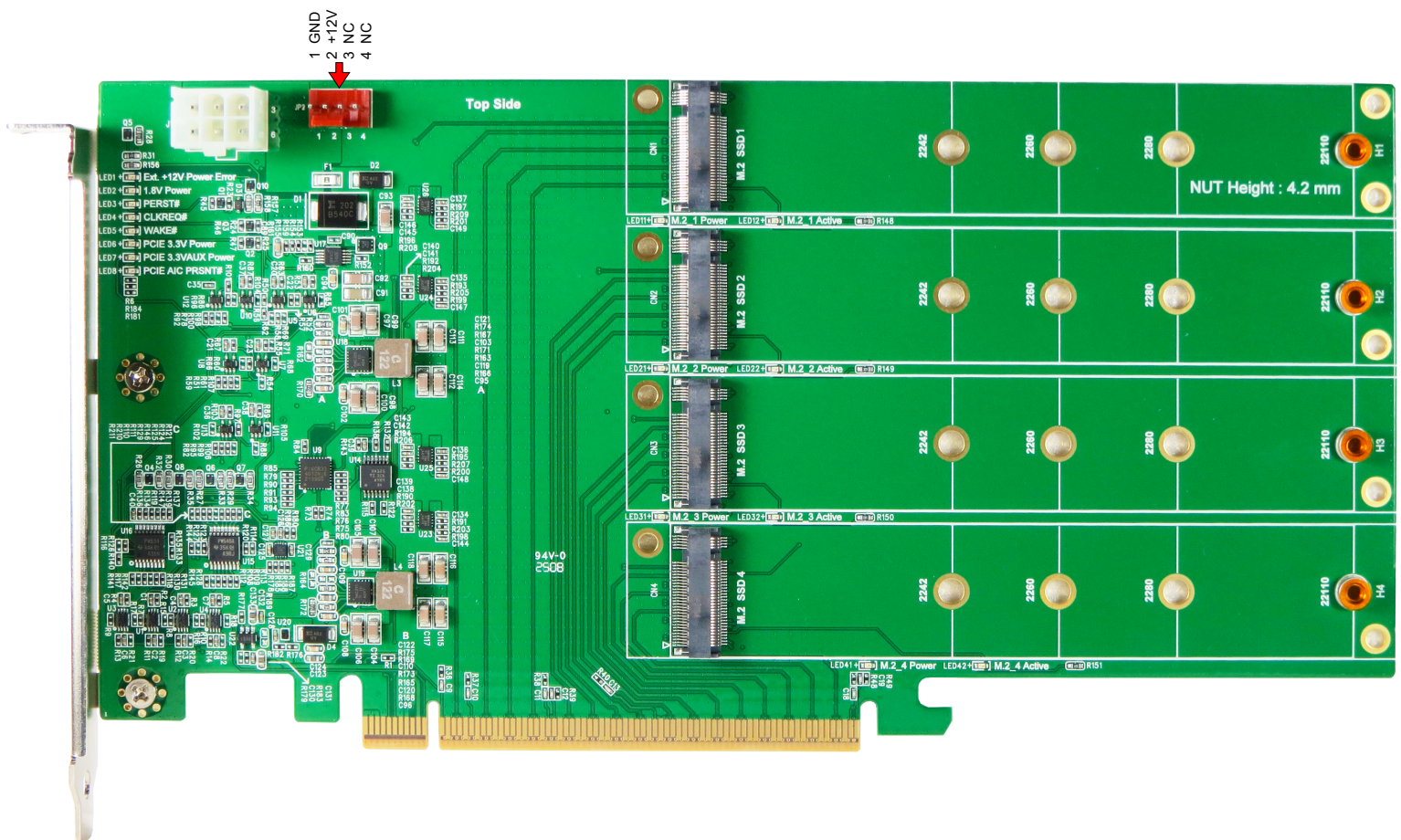


Innocard Minerva

EP6102

PCIe x16 Gen5 to M.2 NVMe SSD Quad Port AIC



PCIe x16 Gen5 to M.2 NVMe SSD Quad Port AIC

Features

- ※ M.2 quad port to PCIe x16 Gen5 convert
- ※ Built-in four M.2 M-key connector with 50μ gold-plated contacts
- ※ 12V to 3.3V PWM synchronous buck converter for M.2 connector CN1, CN2
 - ◆ Support 12-A Continuous current
 - ◆ The undervoltage lockout (UVLO) circuit monitors
- ※ 12V to 3.3V PWM synchronous buck converter for M.2 connector CN3, CN4
 - ◆ Support 12-A Continuous current
 - ◆ The undervoltage lockout (UVLO) circuit monitors
- ※ Each M.2 connector input is built-in 3.3V Load Switch
 - ◆ 5-A Maximum Continuous Switch Current
 - ◆ Adjustable Undervoltage Lockout Threshold (UVLO)
- ※ Supports PCIe PERST# for OOB(out of band) management to remote M.2 Reset
- ※ Built- in PCIe WAKE# bidirectional voltage-level translator for Open-Drain output to be used more PCB trace lengths and more longer cable
- ※ Built- in PCIe CLKREQ# bidirectional voltage-level translator for Open-Drain output to be used more PCB trace lengths and more longer cable
- ※ Built- in SMBus Switch for each M.2 1.8V SMBus port, Address: 0x70(7 bits)
- ※ Built- in SMBus I/O Expander for each M.2 PWRDIS signals control, Address: 0x20(7 bits)
- ※ LED 1 Red LED on indicates input 12V Power error
- ※ LED 2 Green LED on indicates 1.8V Power ready
- ※ LED 3 Red OFF indicates WAKE# Normal (Function intentionally inverted)
- ※ LED 4 Red OFF indicates CLKREQ#Normal (Function intentionally inverted)
- ※ LED 5 Red OFF indicates PERST#Normal (Function intentionally inverted)
- ※ LED 6 Green LED on indicates 3.3V Power ready
- ※ LED 7 Green LED on indicates 3.3VAUX Power ready
- ※ LED 8 Green LED on indicates AIC present
- ※ LED 11 Green LED on indicates M.2/CN1 3.3V Power ready
- ※ LED 12 Red LED flash indicates M.2/CN1 Active
- ※ LED 21 Green LED on indicates M.2/CN2 3.3V Power ready
- ※ LED 22 Red LED flash indicates M.2/CN2 Active
- ※ LED 31 Green LED on indicates M.2/CN3 3.3V Power ready
- ※ LED 32 Red LED flash indicates M.2/CN3 Active
- ※ LED 41 Green LED on indicates M.2/CN4 3.3V Power ready
- ※ LED 42 Red LED flash indicates M.2/CN4 Active

Specifications

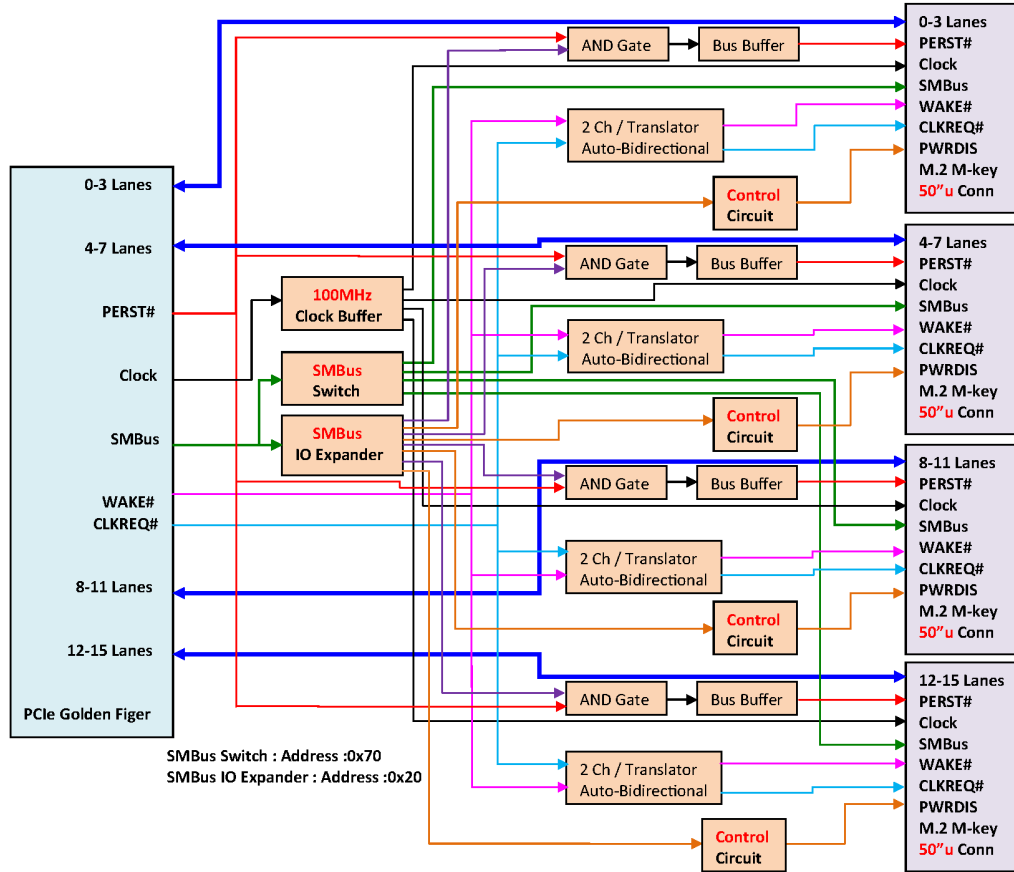
- ※ Compliant with NVM Express 2.0
- ※ Support PCI Express Base Specification Rev 5.0
- ※ Support PCIe_CEM_R5.1_V1.0_08072023_NCB
- ※ Compliant with PCI_Express_M.2_Spec_Rev5.1

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)

PCIe x16 Gen5 to M.2 NVMe SSD Quad Port AIC

EP6102 PCIe x16 Gen5 to M.2 Quad Port Block Diagram



EP6102 PCIe x16 Gen5 to M.2 Quad Port Power Tree

