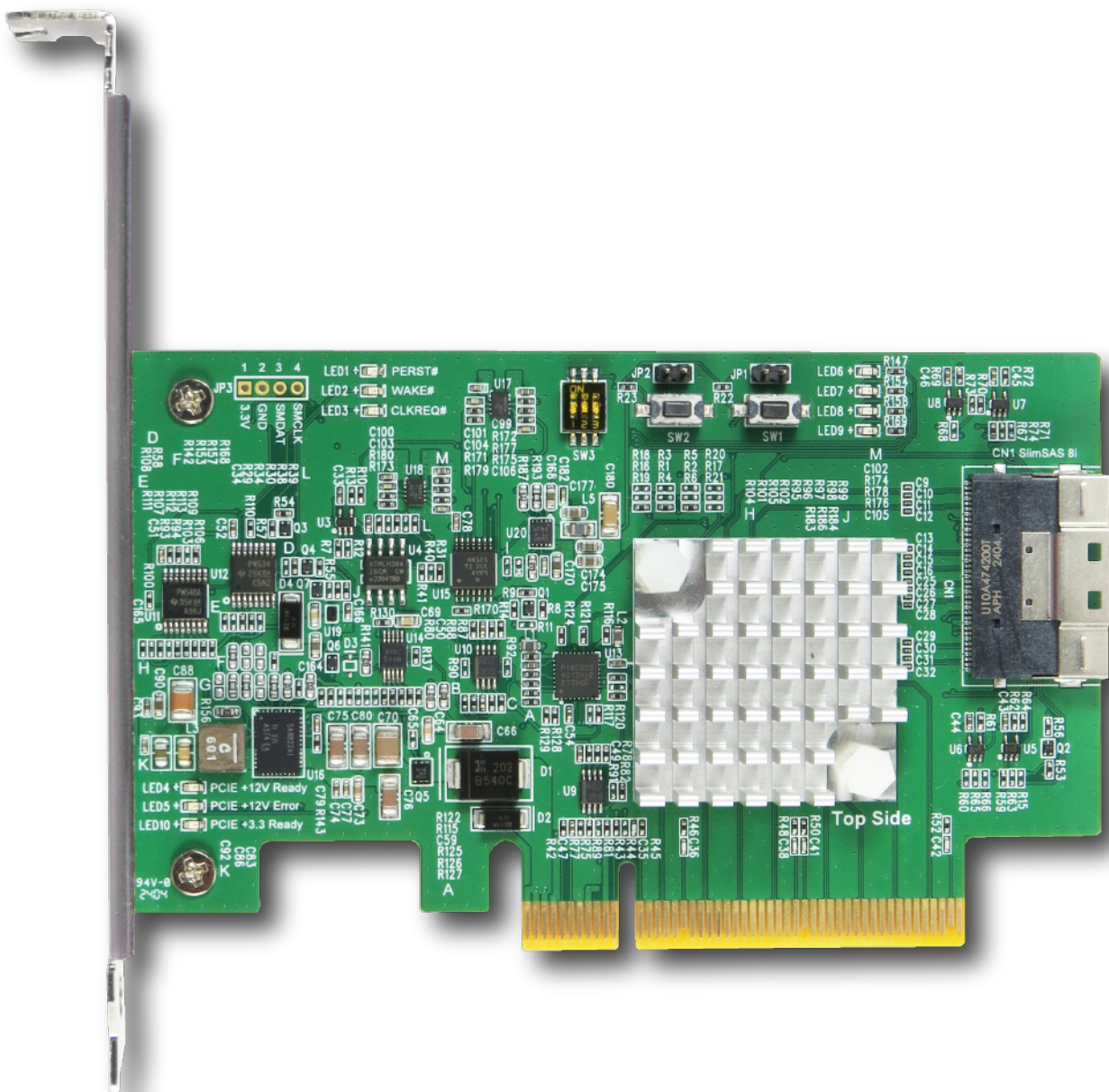


Innocard Minerva

DP8412

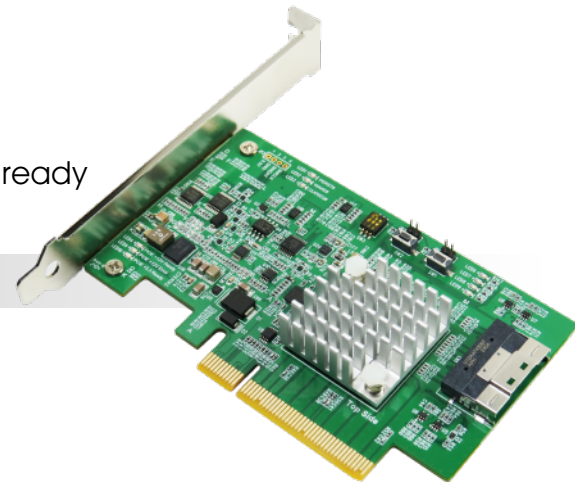
PCIe x8 Gen4 with ReTimer to SlimSAS 8i(SFF-8654) AIC



PCIe x4 Gen4 with ReTimer to SlimSAS 8i(SFF-8654) AIC

Features

- ※ PCIe CEM 12V input with fuse/ 5A to protect Retimer controller to be destroyed by over current.
- ※ PCIe CEM 12V input with schottky to protect Retimer controller to be destroyed by reverse voltage.
- ※ PCIe CEM 12V with High Side controller and to enable N-MOS Power
- ※ PCIe CEM 12V to 1.17V/25A SWIFT Synchronous Step-Down Converter
- ※ 1.17V with load switch protection for Retimer PWR_2A Power Rail
- ※ 1.17V with load switch protection for Retimer PWR_2B & PWR_2C Power Rail
- ※ SlimSAS 8i (SFF-8654) to PCI Express 4.0 convert
- ※ Built-in SFF-8654 8i connector, pin-out defined by SFF-9402 Rev1.1
- ※ Built-in ReTimer to extend PCIe 4.0, 16GT/s 8 lanes differential pair signals data link width.
- ※ Supports 2x4 bifurcation
- ※ Built-in PCIe 100MHz Clock buffer to drive longer trace length and longer cable length.
- ※ Built-in PCIe SMBus Switch for SlimSAS 8i (SFF-8654) 2-port SMBus Hot Plug
- ※ Built-in PERST# Bus Buffer Gate to be used over longer trace lengths and over longer cable length.
- ※ Built-in WAKE# Bus Buffer Gate to be used over longer trace lengths and over longer cable length.
- ※ Built-in CLKREQ# Bus Buffer Gate to be used over longer trace lengths and longer over cable length.
- ※ LED1 Green OFF indicates PERST# Normal (Function intentionally inverted)
- ※ LED2 Green OFF indicates WAKE# Normal (Function intentionally inverted)
- ※ LED3 Green OFF indicates CLKREQ# Normal (Function intentionally inverted)
- ※ LED4 Green ON indicates 12V ready
- ※ LED5 Red ON indicates 12V Error
- ※ LED6 Red ON indicates 1.17 ready
- ※ LED7 Red ON indicates 1.8V ready
- ※ LED8 Red ON indicates Retimer PWR_2A Power Rail ready
- ※ LED9 Red ON indicates Retimer PWR_2B & PWR_2C Power Rail ready
- ※ LED10 Green ON indicates 3.3 ready



Specifications

- ※ PCI Express Base Specification Rev 4.0
- ※ PCIe_CEM_SPEC_R4_V1_0_08072019_NCB
- ※ Support SSD_Form_Factor_Version1_a
- ※ Compliant with SFF-8654 Specification Version 1.2

Operating system support

- ※ Windows 7
- ※ Windows 8 &8.1
- ※ Windows 10
- ※ Windows 11
- ※ Linux
- ※ VMware

Applications

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

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