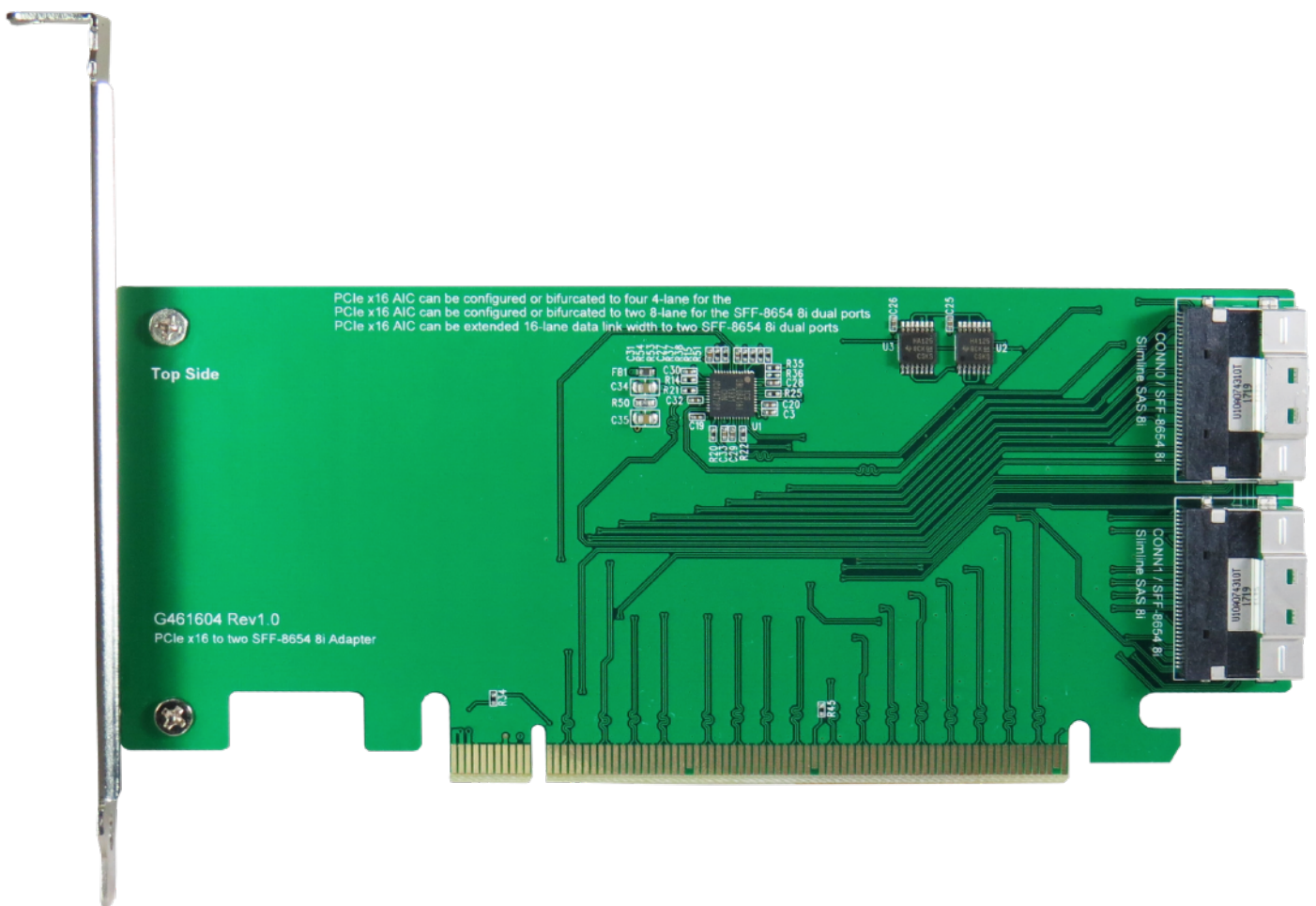


Innocard Minerva

PE1603

PCIe Gen3 16-lane to two SlimSAS 8-Lane (SFF-8654 8i) Adapter



Notice:

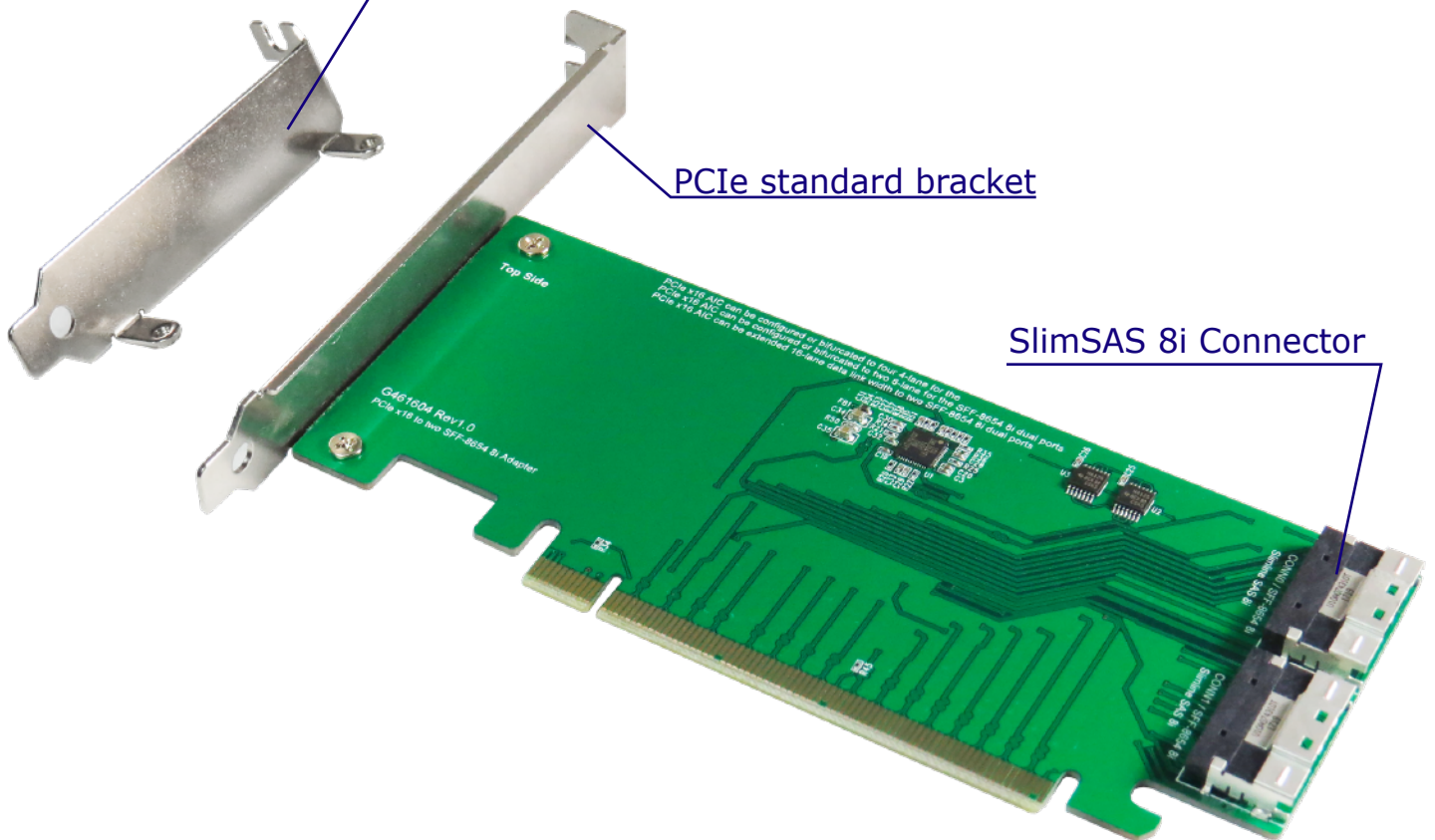
The Mainboard with CPU and BIOS needs to support bifurcation to ensure PCIe x16 link width to bifurcate two x8 link width for four NVMe SSD. If not, PE1603 Riser Card only supports PCIe x16 link width

PCIe Gen3 16-lane to two SlimSAS 8-Lane (SFF-8654 8i) Adapter

PCIe low profile bracket

PCIe standard bracket

SlimSAS 8i Connector



Features

- ※ PE1603 can be bifurcated in quad x4 data link width configurations(need CPU and BIOS both support)
- ※ PE1603 can be bifurcated in two x8 data link width configurations(need CPU and BIOS both support)
- ※ PE1603 can be used over a cable to extend x16 data link width
- ※ PE1603 features four internal NVMe(SFF-8654 8i x2) for high-performance storage connectivity.
- ※ Build in SlimSAS(SFF-8654) 8i connector 2 sets, pin-out defined by SFF-9402
- ※ Eight internal lanes per SlimSAS 8i port, 6.4Gb/s per port
- ※ Supports four physical NVMe devices
- ※ Supports SFF-9402 clock pin out
- ※ Supports Intel define SlimSAS (SFF-8654) clock pin out
- ※ Supports SFF-9402 perst# pin out
- ※ Supports Intel Define SlimSAS(SFF-8654) perst# pin out
- ※ Enables the system clock signal to be used over longer trace lengths and over a cable
- ※ Enables the system perst# signal to be used over longer trace lengths and over a cable

PCIe Gen3 16-lane to two SlimSAS 8-Lane (SFF-8654 8i) Adapter

Specifications

- ※ Compliant with NVM Express 1.2a
- ※ Support PCI Express Base Specification Rev 3.1
- ※ Support SSD_Form_Factor_Version1_a
- ※ Compliant with SFF-8654 Specification Version 1.2

Operating system support

- ※ Vmware
- ※ Linux
- ※ Windows 8 &8.1
- ※ Windows 10
- ※ UEFI 2.3.1 or later

Application

- ※ Servers
- ※ HBA(Host Bus Adapter)
- ※ Data Center
- ※ Storage Racks
- ※ Storage Controller
- ※ Servers RAIDs(Redundant Array of Independent Disks)
- ※ Routers
- ※ Switches

Block Diagram

