

Innocard

# Minerva

**GD3404G**

OCulink 8i *PCIe 4.0* for U.2 NVMe SSD with 3.5" Enclosure



## OCulink 8i **PCIe 4.0** for U.2 NVMe SSD with 3.5" Enclosure

### Features

- ※ U.2(SFF-8639) to SFF-8612 OCulink convert
- ※ Build in SATA 15-pin power connector
- ※ Build in SFF-8639 connector, pin-out defined by SFF-9402 Rev1.1
- ※ Build in SFF-8612 connector, pin-out defined by SFF-9402 Rev1.1
- ※ Oculink 4i to U.2 NVMe supports SMBus Hot Plug
- ※ Supports U.2 PWRDIS function
- ※ Input +12V with 40V, 5A Schottky barrier rectifiers
- ※ Input +12V High-Side Protection Controller with Charge pump gate driver for external N-Channel MOSFET
- ※ Input +12V Overvoltage Protection
- ※ Input +12V Undervoltage Lockout Protection
- ※ Input 3.3VAUX with Load Switch Protection
- ※ LED 1 Green LED on indicates SSD power ready
- ※ LED 2 Red LED Blinking indicates SSD active status
- ※ LED 3 Green LED on indicates +12V power Fault

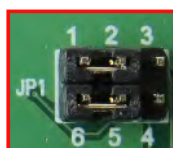
### Specifications

- ※ Compliant with NVM Express 1.0a
- ※ Support PCI Express Base Specification Rev 4.0
- ※ Support SSD\_Form\_Factor\_Version1\_a
- ※ Compliant with PCIe\_SFF-8639\_R3.0\_V1.0
- ※ Compliant with PCI\_Express\_OCulink\_1.0

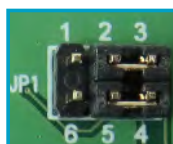
### Applications

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

The switches settings are as noted below



JP1 SETUP			
1-2	ON	no function	Default setup
5-6	ON	CLKREQ#@Connect OCulink A13 pin to U.2 SSD E4 pin	
2-3	ON	for Broadcom AIC Setup	
4-5	ON	for Broadcom AIC Setup	



JP1 SETUP			
2-3	ON	for Broadcom AIC Setup	
4-5	ON	for Broadcom AIC Setup	

# OCulink 8i **PCIe 4.0** for U.2 NVMe SSD with 3.5" Enclosure

## The GD3404G adapter can support the following Broadcom products

- ※ For Broadcom 96xx PCIe 4.0, 24G SAS MegaRAID and eHBA Tri-Mode Storage Adapters:
  - MegaRAID 9670W-16i
  - MegaRAID 9670-24i
  - MegaRAID 9660-16i
  - eHBA 9620-16i
  - eHBA 9600-24i
  - eHBA 9600-16i
  - eHBA 9600-8e8i

### Application case 2:

- ※ For Broadcom 95xx PCIe 4.0 MegaRAID and HBA Tri-Mode Storage Adapters:
  - MegaRAID 9560-16i
  - MegaRAID 9560-8i
  - MegaRAID 9580-8i8e
  - HBA 9500-16i
  - HBA 9500-8i
  - P411W-32P

## Block Diagram

