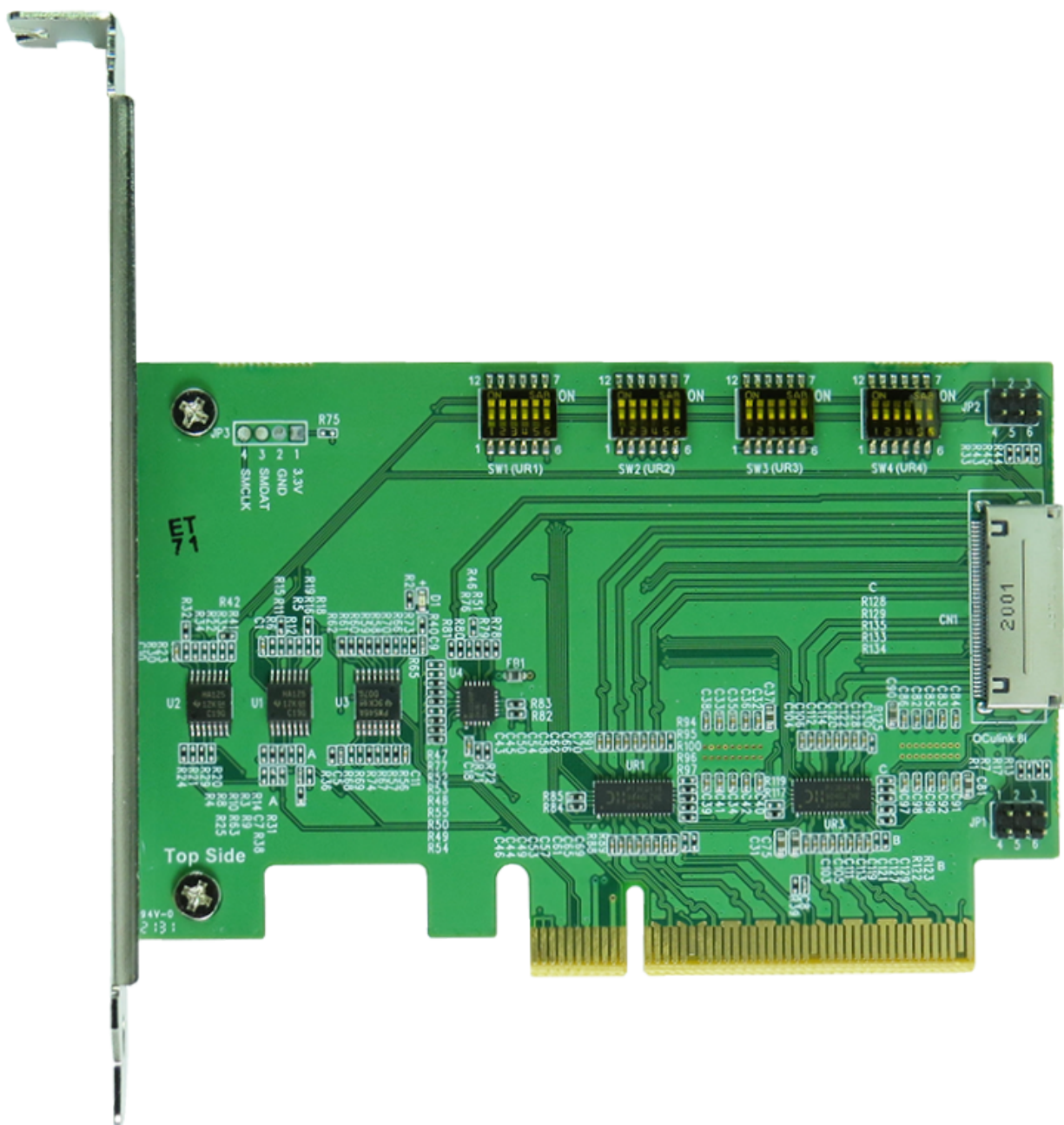


Innocard Minerva

DP8305

PCIe x8 Gen4 with ReDriver to OCulink 8i (SFF-8612) Add-in Card



PCIe x4 Gen4 with ReDriver to OCulink 8i Add-in Card

Features

- ※ OCulink 8i (SFF-8612) to PCIe x8 Gen 4 convert
- ※ Built-in OCulink 8i (SFF-8612) connector, pin-out defined by SFF-9402 Rev1.1
- ※ Built-in ReDriver to extend PCIe 4.0 8 Lanes signals reach.
- ※ Built-in PCIe 100MHz Clock buffer, default Zout=100 ohm to drive longer trace length and longer cable length.
- ※ Built-in PCIe SMBus Switch(Address 0xE2) 4-channel with Reset Function for OCulink 8i (SFF-8612) SMBus and PCIe 100MHz Clock buffer SMBus control
- ※ 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.
- ※ Built-in PWRBRK# Bus Buffer Gate to be used over longer trace lengths and longer over cable
- ※ D1 Green LED on indicates AIC ready

Specifications

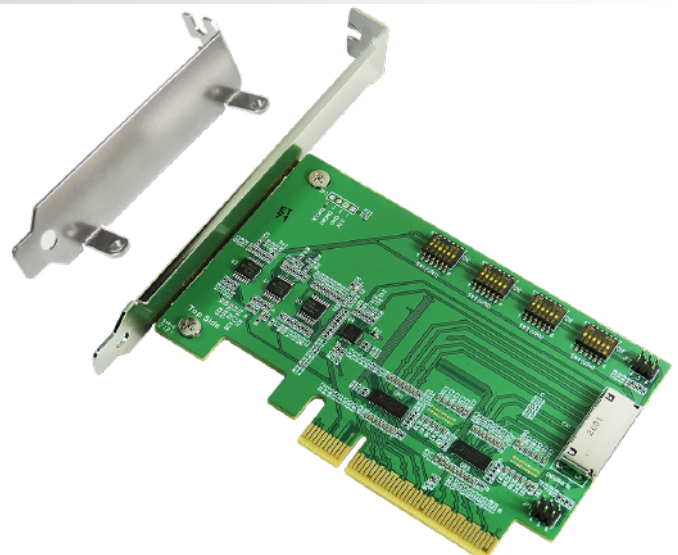
- ※ PCI Express Base Specification Rev 4.0
- ※ PCIe_CEM_SPEC_R4_V1_0_08072019_NCB
- ※ Compliant with Support SFF-9402 Rev1.1
- ※ Compliant with PCI_Express_OCulink_1.0a

Operating system support

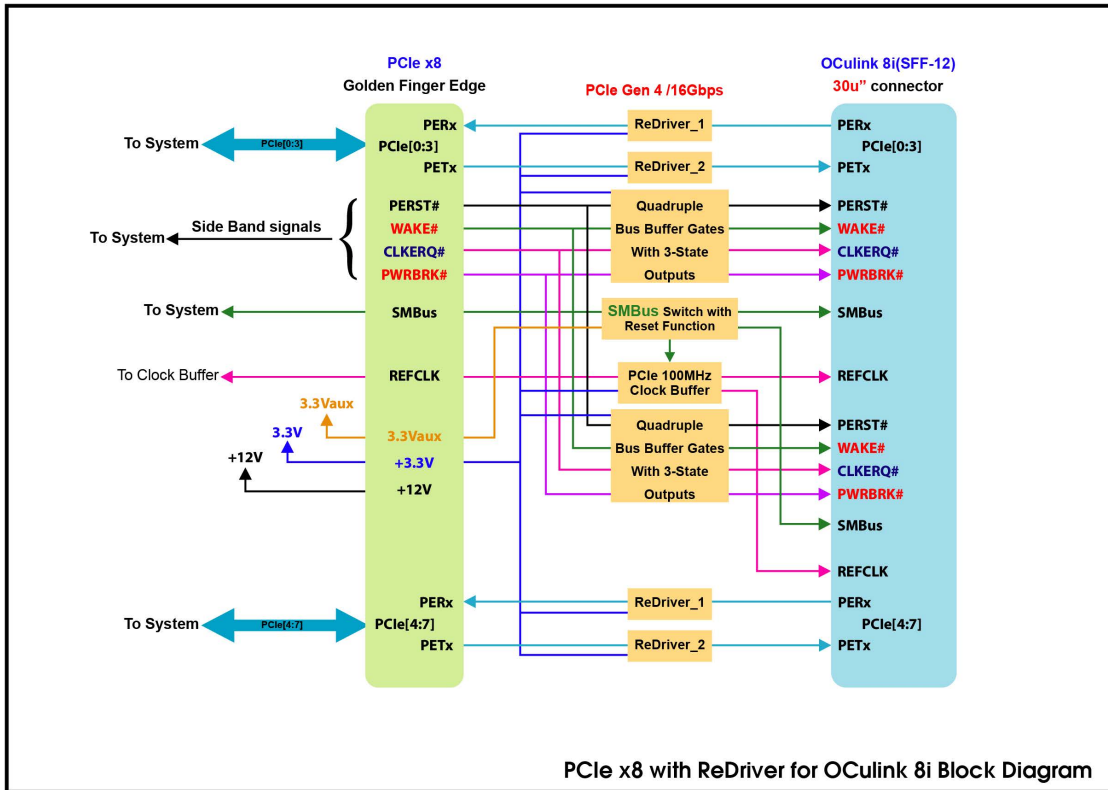
- ※ Windows 8 &8.1
- ※ Windows 10
- ※ UEFI 2.3.1 or later

Applications

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

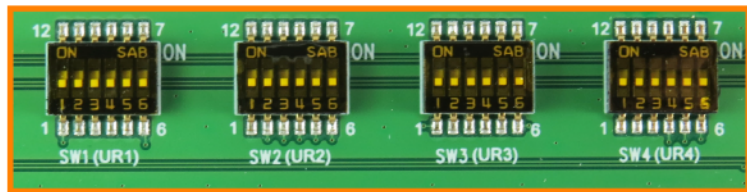
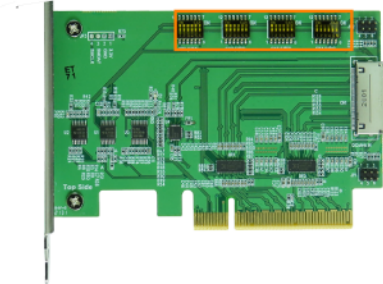


PCIe x4 Gen4 with ReDriver to OCulink 8i Add-in Card



The switches settings are as noted below

Model No.: DP8305
PCIe x8 Gen 4 with Redriver
to OCulink 8i (SFF-8612) AIC



		1-12	Output Swing Setting	on	0	800 mVp-p
SW1 OR SW2	2-11	FG0	Flat Gain Setting	on	0	1200 mVp-p
	3-10	FG1	Flat Gain Setting	off	1	
SW3 OR SW4	4-9	EQ0	Equalization Setting	on	0	
	5-8	EQ1		off	1	
	6-7	EQ2		on	0	
				off	1	

2

Flat Gain Setting		
FG1	FG0	dB
0	0	-3.5
0	1	-2
1	0	-0.5
1	1	1

Default Value : { 1. Swing : High
2. Flat Gain : High
3. Equalization : High

3

Equalizer Setting (dB)						
EQ2	EQ1	EQ0	@1.25GHz	@2.5GHz	@4GHz	@8GHz
0	0	0	0.2	1.0	2.3	5.6
0	0	1	0.2	1.1	2.6	6.2
0	1	0	1.8	2.7	3.9	7.0
0	1	1	2.1	3.3	4.8	8.5
1	0	0	3.0	4.2	5.8	9.4
1	0	1	3.2	4.6	6.5	10.4
1	1	0	4.3	5.8	7.8	11.7
1	1	1	4.5	6.5	8.8	13.0