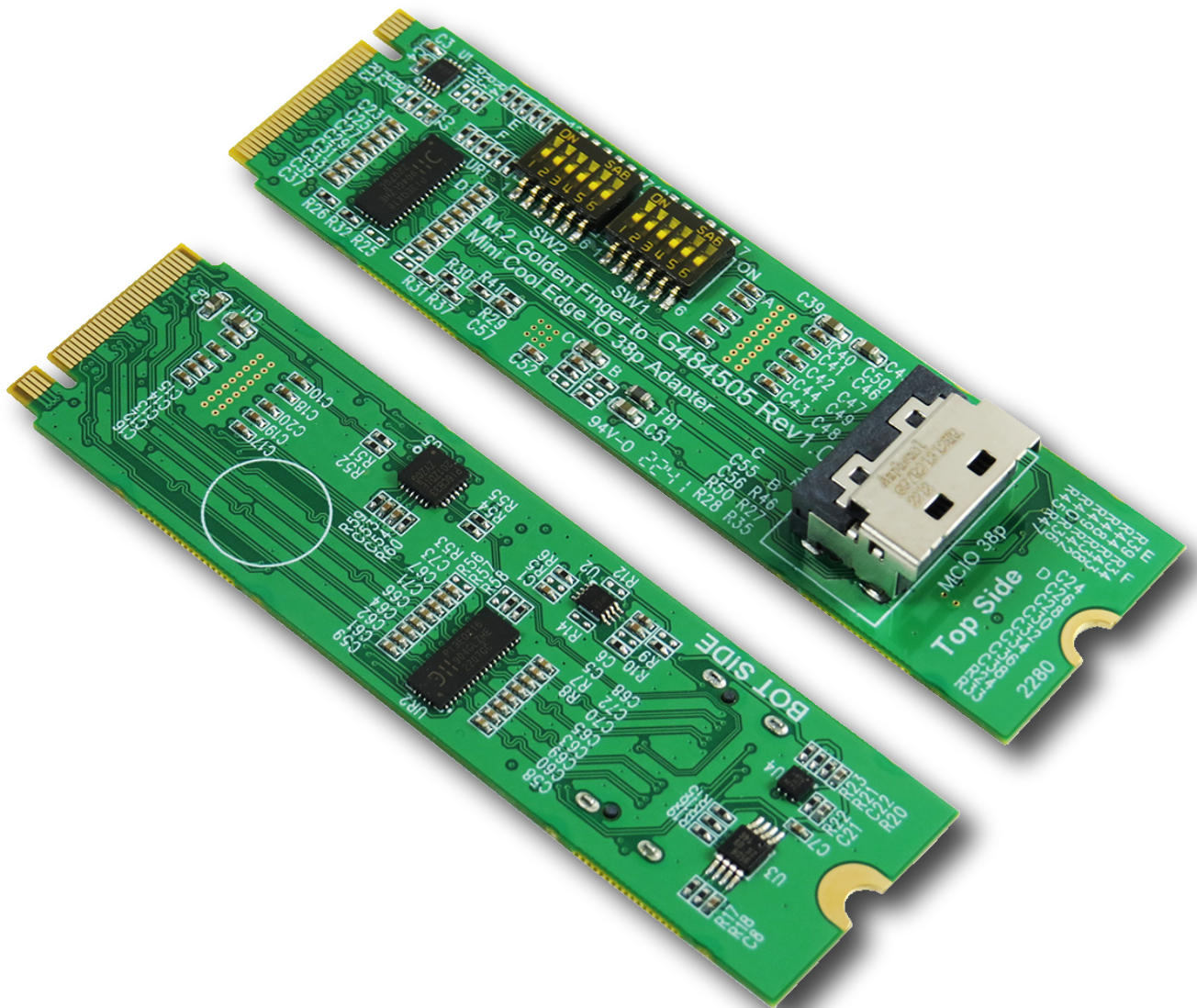


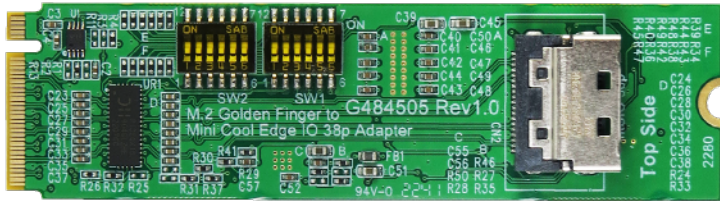
Innocard Minerva

DP6604

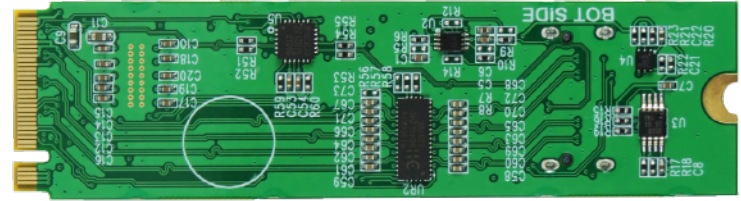
M.2 M-key *PCIe 4.0* with ReDriver to MCIO 38P Adapter



M.2 M-key *PCIe Gen4* with ReDriver to MCIO 38P Adapter



Top side



Bottom side

Features

- ※ MCIO 38P (SFF-TA-1016) to M.2 PCIe 4.0 convert
- ※ Built- in MCIO 38P connector with 30u“(0.76um) min Au mating area plating
- ※ Built- in PCIe ReDriver to extend PCIe 4.0, 16GT/s differential pair signals
- ※ Built- in PCIe 100MHz Clock buffer to drive longer trace lengths and longer cable
- ※ Built- in SMBus repeater and Voltage level shift with Hot swappable level translating
- ※ Built- in PERST# Bidirectional Voltage-Level Translator, it is tied to MCIO 38P A11 pin
- ※ Built- in WAKE# Bidirectional Voltage-Level Translator, it is tied to MCIO 38P B8 pin
- ※ Built- in CLKREQ# Bidirectional Voltage-Level Translator, it is tied to MCIO 38P A12 pin
- ※ Built- in PWRDIS Bidirectional Voltage-Level Translator, it is tied to MCIO 38P B9 pin

Specifications

- ※ PCI Express Base Specification Rev 4.0
- ※ PCIe_CEM_SPEC_R4_V1_0_08072019_NCB
- ※ Compliant with SFF-TA-1016 Rev 1.0
- ※ Compliant with SFF-9402 Specification Version 1.1
- ※ PCI Express M.2 Spec Rev4.0 Ver1.0 11052020 NCB

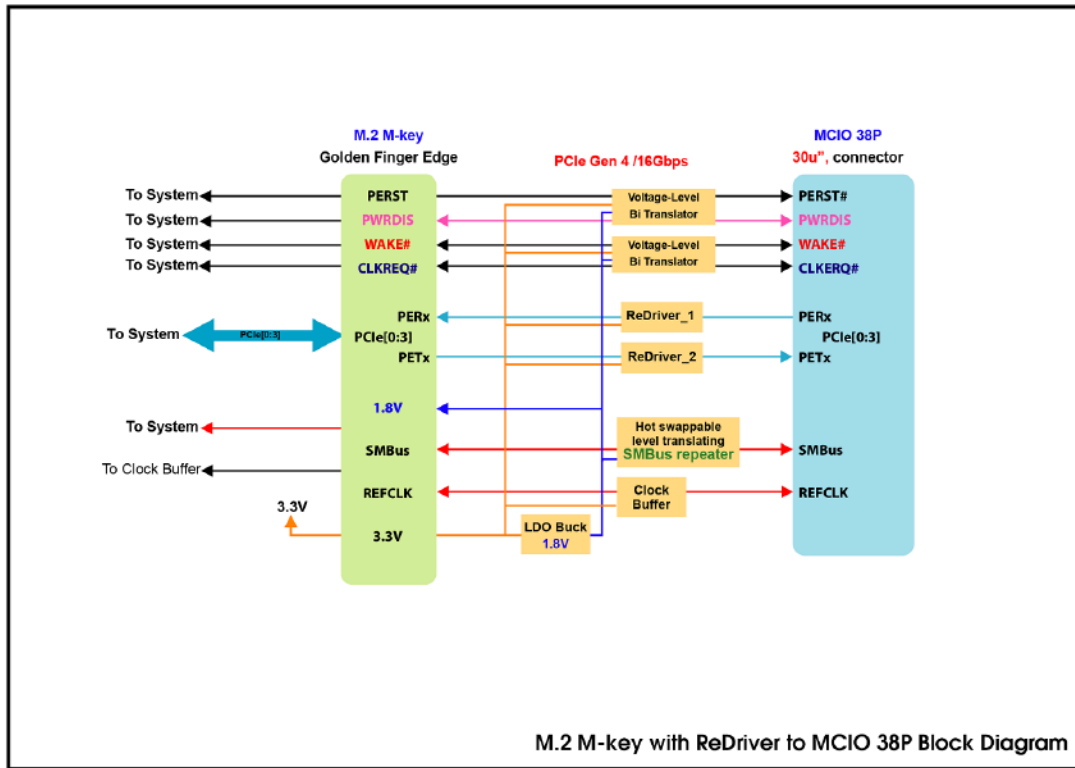
Operating system support

- ※ Windows 7
- ※ 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

M.2 M-key PCIe Gen4 with ReDriver to MCIO 38P Adapter



The switches settings are as noted below

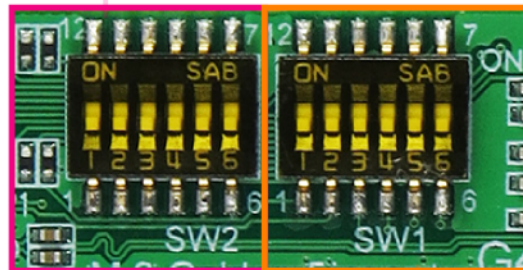
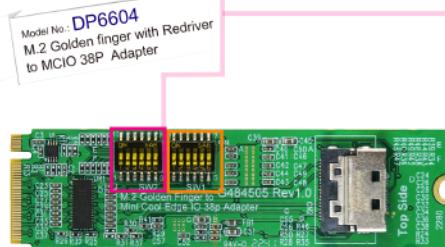
SW1	1-12	Output Swing Setting	on	0
	2-11	Flat Gain Setting	off	1
	FG0		on	0
	3-10		off	1
	FG1	on	0	
	4-9	Equalization Setting	off	1
	EQ0		on	0
	5-8		off	1
	EQ1		on	0
	6-7	off	1	
EQ2	on	0		

800 mVp-p
1200 mVp-p

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

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



SW2	1-12	Output Swing Setting	on	0
	2-11	Flat Gain Setting	on	0
	FG0_1		off	1
	3-10		on	0
	FG1_1	off	1	
	4-9	Equalization Setting	on	0
	EQ0_1		off	1
	5-8		on	0
	EQ1_1		off	1
	6-7	on	0	
EQ2_1	off	1		

800 mVp-p
1200 mVp-p

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

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