

SFF-8673 1x2, 4X PCIe 4.0 to SFF-8674 1x2, 4X Adapter

Features

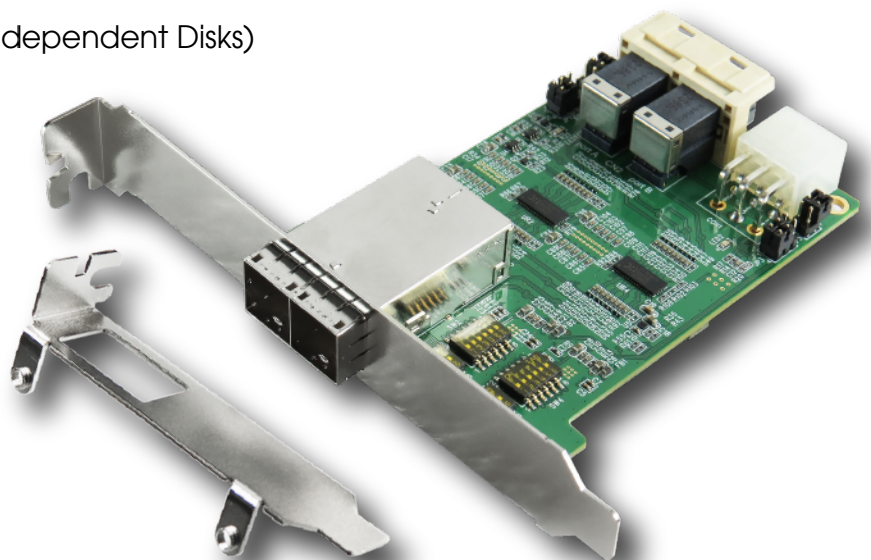
- ※ SFF-8673 1x2, 4X(Internal Mini SAS HD) dual port to SFF-8674 1x2, 4X(External Mini SAS HD) convert
- ※ Built-in SFF-8673 1x2, 4X, 30u" connector
- ※ Built-in SFF-8674 1x2, 4X, 30u" connector
- ※ Built-in two 12V to 3.3V PWR Buck Power controller
 - ◆ Programmable Current Limit: 6.5A
- ※ Built-in 3.3V Load Switch protection for ReDriver controller
- ※ Supports PCIe CLKREQ#, WAKE# connection
- ※ Supports SMBus connection from SFF-8673 to SFF-8674
- ※ LED1, LED2 Red OFF indicates PERST# Normal (Function intentionally inverted)

Specifications

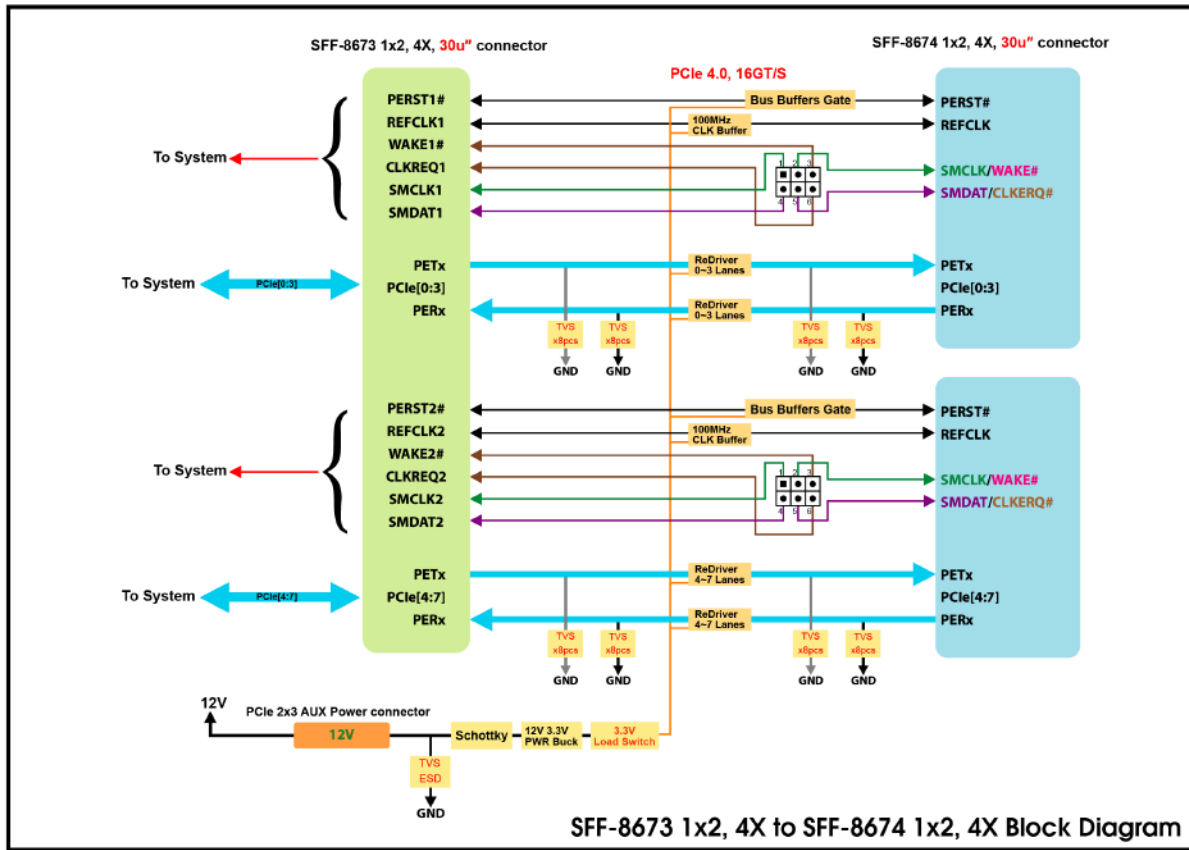
- ※ Compliant with NVM Express 1.4
- ※ Support PCI Express Base Specification Rev 4.0
- ※ Compliant with SFF-9402 Rev1.1
- ※ Compliant with SFF-TA-8613 R3.5.4_CB
- ※ Compliant with SFF-TA-8614 R3.4_CB

Applications

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



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The switches settings are as noted below

Model No.: GD2808A
SFF-8673 1x2, 4X PCIe 4.0 to SFF-8674 1x2, 4X Adapter

JP1, JP3 SETUP

1-2	ON	SMCLK	Default setup
4-5	ON	SMDAT	
2-3	ON	WAKE1#	
5-6	ON	CLKREQ1#	

JP2, JP4 SETUP

1-2	ON	For Broadcom setup
4-5	ON	For Broadcom setup

SW1 OR SW2 OR SW3 OR SW4

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

Flat Gain Setting

FG1	FG0	dB
0	0	-3.5
0	1	-2
1	0	-0.5
1	1	1

Equalizer Setting (dB)

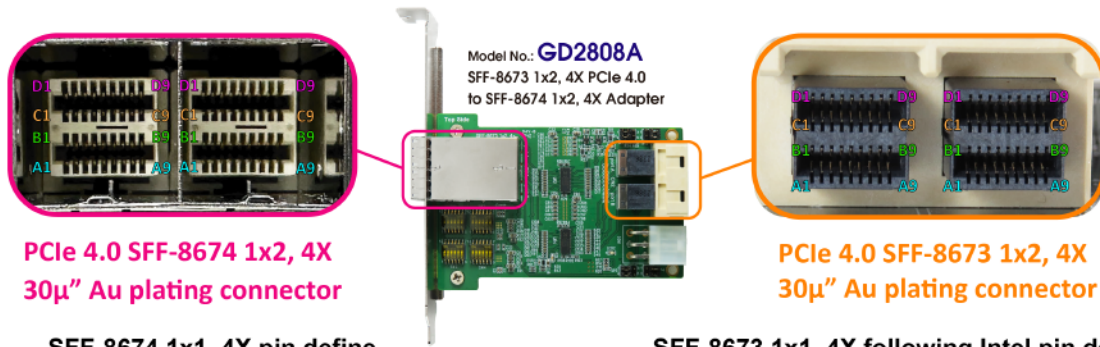
EQ2	EQ1	EQ0	@1.25GHz	@2.5GHz	@4GHz	@8GHz
0	0	0	0.2	1.0	2.3	5.6
0	0	1	0.2	1.1	2.6	6.2
0	1	0	1.8	2.7	3.9	7.0
0	1	1	2.1	3.3	4.8	8.5
1	0	0	3.0	4.2	5.8	9.4
1	0	1	3.2	4.6	6.5	10.4
1	1	0	4.3	5.8	7.8	11.7
1	1	1	4.5	6.5	8.8	13.0

Default Value :

- Swing : High
- Flat Gain : High
- Equalization : High

SFF-8673 1x2, 4X PCIe 4.0 to SFF-8674 1x2, 4X Adapter

The following figure shows pin out



SFF-8674 1x1, 4X pin define

Pin#	Net	Pin#	Net
A1	REFCLKp	B1	PERST#
A2	REFCLKn	B2	NC
A3	GND	B3	GND
A4	PERp0	B4	PERp1
A5	PERn0	B5	PERn1
A6	GND	B6	GND
A7	PERp3	B7	PERp2
A8	PERn3	B8	PERn2
A9	GND	B9	GND
C1	SMCLK/WAKE#	D1	NC
C2	SMDAT/CLKREQ#	D2	NC
C3	GND	D3	GND
C4	PETp0	D4	PETp1
C5	PETn0	D5	PETn1
C6	GND	D6	GND
C7	PETp3	D7	PETp2
C8	PETn3	D8	PETn2
C9	GND	D9	GND

SFF-8673 1x1, 4X following Intel pin define

Pin#	Net	Pin#	Net
C1	BP_TYPE/PWRDIS	D1	SMCLK
C2	WAKE#	D2	SMDAT
C3	GND	D3	GND
C4	PETp1	D4	PETp0
C5	PETn1	D5	PETn0
C6	GND	D6	GND
C7	PETp3	D7	PETp2
C8	PETn3	D8	PETn2
C9	GND	D9	GND
A1	REFCLKn	B1	CLKREQ#
A2	REFCLKp	B2	PERST#
A3	GND	B3	GND
A4	PERp1	B4	PERp0
A5	PERn1	B5	PERn0
A6	GND	B6	GND
A7	PERp3	B7	PERp2
A8	PERn3	B8	PERn2
A9	GND	B9	GND

Supports the following Broadcom PCIe 4.0 Add-in Card application

- ※ 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
- ※ For Broadcom 95xx PCIe 4.0 MegaRAID and HBA Tri-Mode Storage Adapters:
 - MegaRAID 9560-16i
 - MegaRAID 9560-8i
 - MegaRAID 9580-8i8e
 - HBA9500-16i
 - HBA 9500-8i
 - P411W-32P