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4-port mini SAS Backplane User's Manual

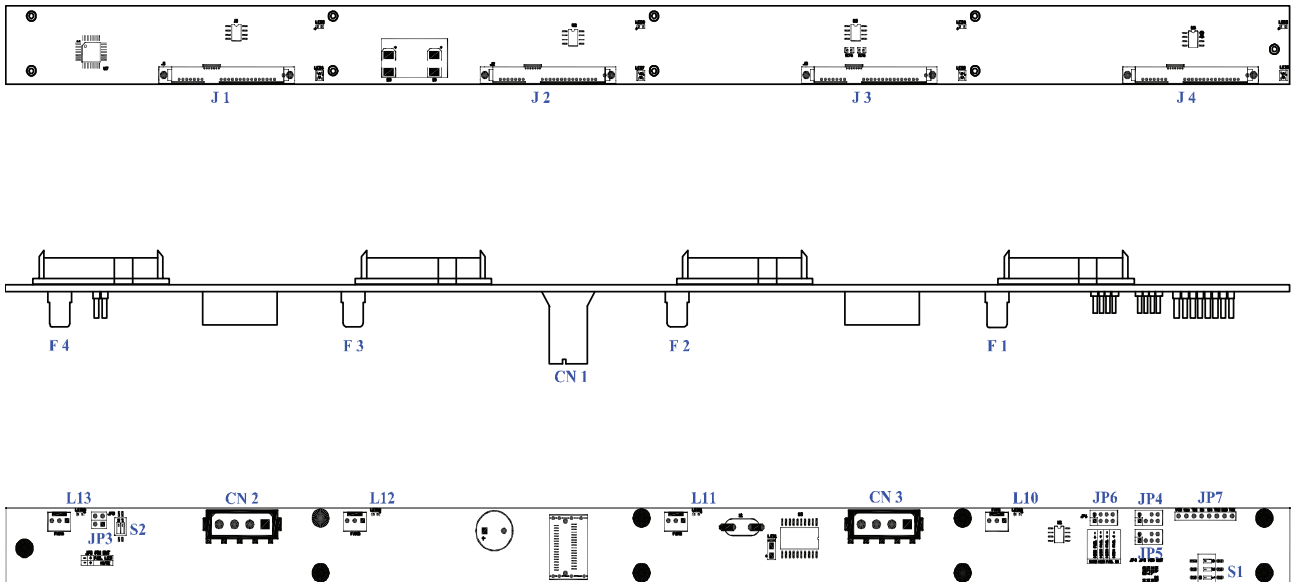
***(E1M4, E2M4, E2M8, E2M8-MATX, E2M10, E2M12
E3M8, E3M16, E4M20, E5M26, E8M42, E9M50)***

Rev. 1.10

Backplane Specification:

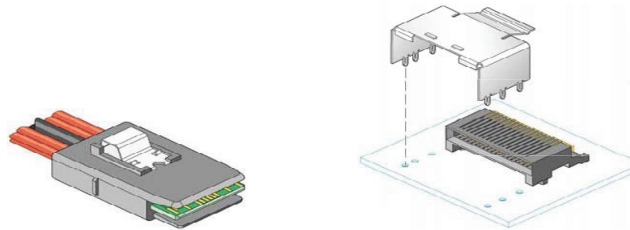
- ◇ Support host mini SAS 36pin 180 degree female for 6G backward compatibility.
- ◇ Support mini SAS sideband signal for ARECA host card LED status.
- ◇ Support HDD 29pin SAS/SATAII female interface for 6G backward compatibility.
- ◇ Support 4 port hard disk inrush current control and mosfet IC for Host-swapping
- ◇ Support ARECA I2C signal for LED status.
- ◇ Default is for areca card I2C firmware on LC4032
- ◇ Support 4pcs white color LED light on for hard disk insert
- ◇ Support 4pcs blue color LED blink for hard disk access and red color LED light on for hard disk fail. (SATA ready is High active. and SAS ready is Low active)
- ◇ Support 2pcs power 180 deg big 4pin power connectors
- ◇ Support external FAN speed monitoring and FAN failure buzzer alarm.
- ◇ Support external temperature and FAN file LED bright.
- ◇ Support temperature setting 50°C or 60°C or alarm mute function.
- ◇ Support 4pcs LED for fan file light on.
- ◇ Minimum fan speed detection: approximately 1200rpm min.

Backplane Connectors:



- (1) J1 / J2 / J3 / J4 : connector to 22pin SATAII or 29pin SAS HDD
- (2) F1 / F2 / F3 / F4 : Fan connector 1-4
- (3) CN1 : Mini-SAS connector

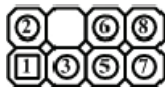
SFF8087 mini-SAS 36pin cable plug receptacle connectors



- (4) CN2 / CN3 : 4pin power connector
- (5) L10 / L11 / L12 / L13 : Fan file LED
- (6) S1 : I2C firmware LED status address setting switch only for ARECA CARD use
(Default ON is 000) the address set please see the ARECA card I2C function.

Switch						
Channel HDD	Default HDD 01-04	HDD 05-08	HDD 09-12	HDD 13-16	HDD 17-20	HDD 21-24

- (7) JP4: I2C in put header pin out only for ARECA CARD use.



Pin	2	4	6	8
Name	GND	Key Pin	I2C-data	Reserved
Pin	1	3	5	7
Name	DC +5V	Reserved	Reserevd	I2C-data

- (8) JP5 : I2C out put header pin out only for ARECA CARD use.



Pin	2	4	6	8
Name	GND	Key Pin	I2C-data	Reserved
Pin	1	3	5	7
Name	DC +5V	Reserved	Reserevd	I2C-data

- (8) JP7 : IC LC4032 firmware update pin out

pin	1	2	3	4	5	6	7	8
name	VCC	TDO	TDI	NA	NA	TMS	GND	TCK

(9) JP6 : CARE HDD FAIL IN pin out



Pin	Definiton	Pin	Definiton
1	HDD1 FAIL +	2	HDD1 FAIL -
3	HDD2 FAIL +	4	HDD2 FAIL -
5	HDD3 FAIL +	6	HDD3 FAIL -
7	HDD4 FAIL +	8	HDD4 FAIL -

(10) JP3 : external temperature and fan file LED bight and alarm mute



4	FAIL LED -	3	FAIL LED +
2	Buzzer mute -	1	Buzzer mute +

(11) S2 : temperature setting 50°C or 60°C and alarm mute switch



Switch	SW 1	SW 2
ON	55°C	Mute enable
OFF	60°C	Mute disable