SIERRA TECHNOLOGIES, LLC

www.SierraTechnologies.com

Phone 864-458-9035

Sales@SierraTechnologies.com

Configuration Specs
FCA-2200K

1. Activity LED (J7) and Drive Start-up Configuration Jumpers: J7

1.1 Activity LED:
An external Activity LED can be installed across J7 pins 7 & 8. Make sure Pin 8 connects to the + (anode) of the LED and pin 7 connects to the – (cathode) of the LED. Do not insert external resistor in path of the LED. The LED activities are summarized below:

Normal Command Activity	LED Status
Spun down and no activity	Slow Blink (20% on 80% off a 2 sec. cycle
Spun down and activity (command executing)	On
Spun up and no activity	On
Spun up and activity (command executing)	Off
Spinning up or down	Blinks steadily (50% on and 50% off)
Format in progress, each cylinder change	Toggles on/off

1.2 Drive Start-up configuration jumpers: Installing jumpers across J7 1-2 (Start 1) and across J7 3-4 (Start 2) determines how the drive motor spins up. Start 1 and Start 2 is "low" if a respective jumper is installed and "high" if the jumper is not installed.

Case	Start 2 (J7 3-4)	Start 1 (J7 1-2)	Motor Spin Function
1	Low	Low	Motor spins up at DC power on.
2	High	Low	Motor spins up only when Start command is received.
3	Low	High	Motor spins up after a delay of 12 seconds times the modulo 8 value of the numeric SEL ID of the drive from DC power on.
4	High	High	The drive will not spin up.

2. Fibre Channel Cable Connections: (J1, J4, J5, J6)

The board supports two independent loops (Channel A and Channel B)

2.1 Ch. A In (J1)
Connect the Output of previous Ch. A (Ch. A Out) to the "Ch. A In" connector J1.
If this is the first or only backplane (from the host controller), connect "RECEIVE" input cable from the host Controller to J1.

2.2 Ch. A Out (J4)
Connect the Input to the next Ch. A (Ch. A In) to this backplane's "Ch. A Out" connector J4. If this is the only of last backplane (from the host controller, connect "TRANSMIT" cable from the host Controller to J4.

2.3 Ch. B In (J5)
Connect the Outpur of previous Ch. B (Ch. B Out) to the "Ch. B In" connector J5. If this is the first or only backplane (from the host controller), connect "RECEIVE" input cable from the host Controller to J5.

2.4 Ch. B Out (J6)
Connect the Input to the next Ch. B (CH. B In) to this backplane's "Ch. B Out" connector J6. If this is the only or last backplane (from the host connector), connect "TRANSMIT" cable from the host cController to J6.

3. FC Drive Connector (J2)

The hot swappable FC Hard Disk Drive is connected to J2.

4. Power Connection (J3)

Connect 4-pin power cable from the power supply to this connector. Pin 1 is assigned for +12V, and pin 4 for +5V

5. 2GHz/1GHz selection and Drive ID Selection JB1

5.1 2GHz/1GHz Selection: JB1 (X-Y)
Pins labeled JB1 X-Y determine the FC transfer speed. When a jumper is installed across JB1 X-Y, the board is capable to support transfer rate of 2.125 GHz on both ports. If the jumper is not installed across X-Y, the board supports only 1.0625GHz operation on each port.

6. SEL_6 through SEL_0 ID lines (JB1 1-14, 2-13, etc.)

The SEL_6 through SEL_0 ID lines determine drive address as follows:

JB1 1-14	**JB1 2-13**	**JB1 3-12**	**JB1 4-11**	**JB5-10**	**JB1 6-9**	**JB1 7-8**	**SEL ID (HEX)**
OFF	OFF	OFF	OFF	OFF	OFF	OFF	0
OFF	OFF	OFF	OFF	OFF	OFF	ON	1
OFF	OFF	OFF	OFF	OFF	ON	OFF	2
OFF	OFF	OFF	OFF	OFF	ON	ON	3
…..	…..	…..	…..	…..	…..	…..	…..
ON	ON	ON	ON	ON	OFF	OFF	7C
ON	ON	ON	ON	ON	OFF	ON	7D

NOTE: Valid addresses are limited to hex 7D only.

Also, please note that the AL_PA (Arbitrated Loop Physical Address) values are mapped to the Selection ID values by the Drive Supplier as specified in the Drive Specifications.