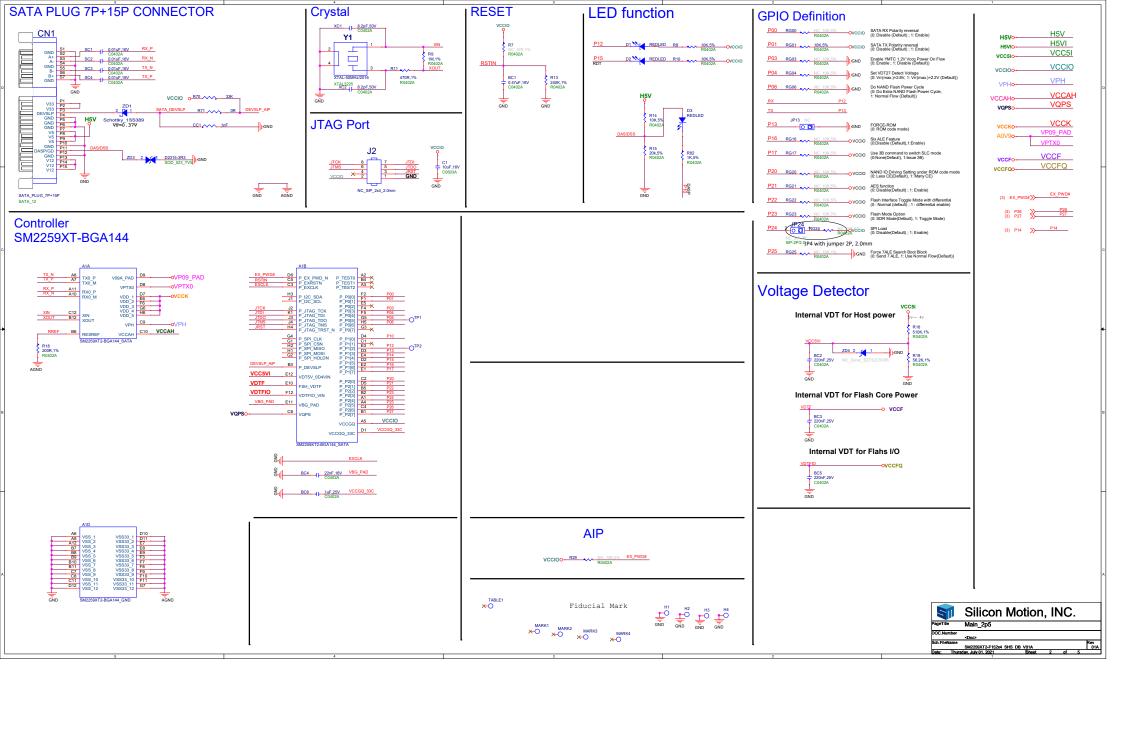
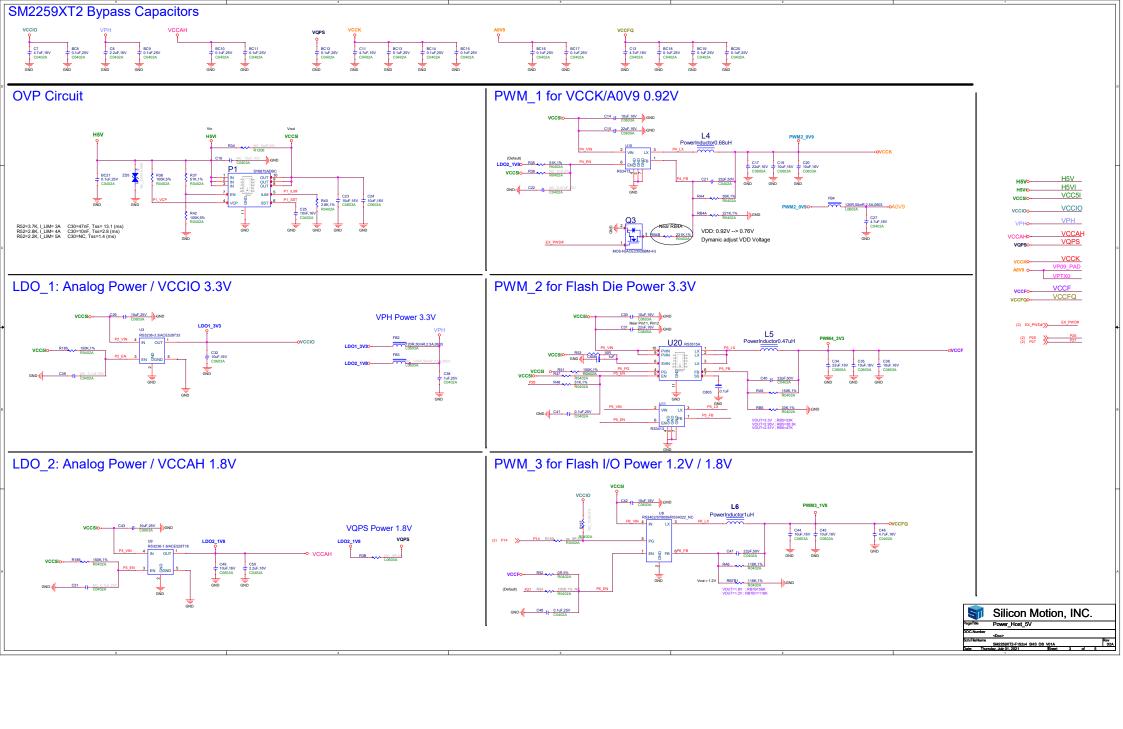
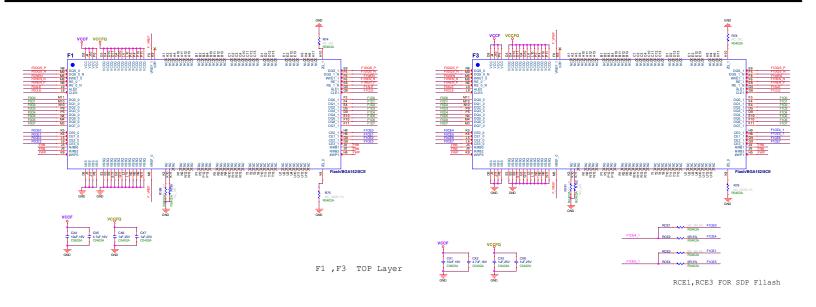
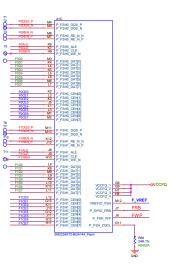
Revision History									
Re	Revision Date Reason for redrawing				Page Update Drawed Checked			Model: SM22	59XT-AB-G144_2p5_G152X4_6
	01A	2021.03.12	Preliminary		Tsunglin Yang				
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								Page1	Cover_Page
								Page2	Controller_BGA144_2.5INCH
								Page3	Power_Host_5V
								Page4	NF_BGA152x4
								Page5	Flash Mounting Guide
									Silicon Motion, INC.
								PageTitle (	Cover Page
								Sch FileName	Doc> M2259XT2-F152x4 SHS DB V01A
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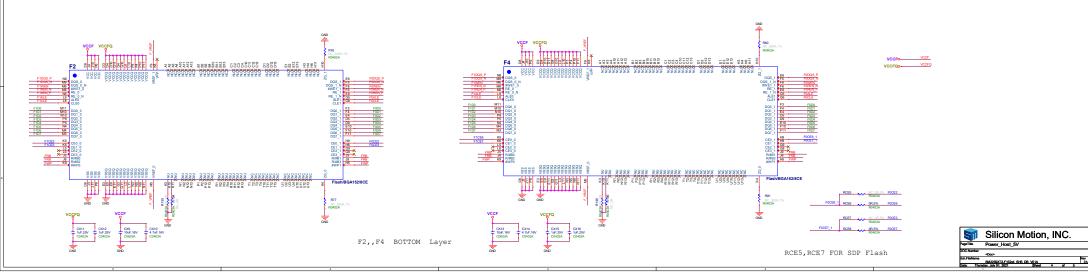
### Channel 0 & 1







#### Channel 0 & 1

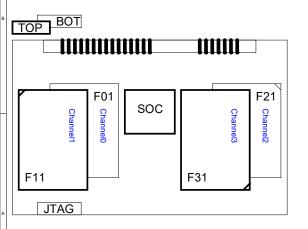


# NAND FLASH Mounting Guide

Half-Slim BGA152X4 NAND Flash Mounting Guide													
NAND Flash Type	F1	F2	F3	F4	NF Config	RCE0	RCE1	RCE2	RCE3	RCE4	RCE5	RCE6	RCE7
Single CE Flash X1	0	X	Х	х	1CH/1CE	>	>	>	>	>	>	>	>
Single CE Flash X2	0	0	X	х	2CH/1CE	0	>	X	>	>	>	>	>
Single CE Flash X4	0	0	0	0	2CH/2CE	0	>	X	0	X	>	0	>
Dual CE Flash X1	0	X	Х	X	2CH/1CE	<u> </u>	<b>\</b>	<b>)</b>	>	>	<b>&gt;</b>	>	>
Dual CE Flash X2	0	0	X	X	2CH/2CE	X	<u> </u>	0	>	>	>	<u> </u>	<u> </u>
Dual CE Flash X4	0	0	0	0	2CH/4CE	X	>	0	>	X	>	0	>
1CH Dual CE X1	0	X	Х	X	1CH/2CE	$\rightarrow$	<b>\</b>	<b>\</b>	>	>	<b>&gt;</b>	<b>&gt;</b>	>
1CH Dual CE X2	0	0	X	X	2CH/2CE	0	0	X	X	>	>	>	>
1CH Dual CE X4	0	0	0	0	2CH/4CE	0	0	X	X	0	0	X	X
Quad CE Flash X1	0	X	Х	X	2CH/2CE	$\rightarrow$	<b></b>	<b>\</b>	<b>&gt;</b>	>	<b>&gt;</b>	<u> </u>	$\rightarrow$
Quad CE Flash X2	0	0	X	X	2CH/4CE	х	X	0	0	>	>	<u> </u>	<b>&gt;</b>
Quad CE Flash X4	0	0	0	0	2CH/8CE	X	X	0	0	X	X	0	0
Octo CE Flash X1	0	X	X	X	2CH/2CE	$\rightarrow$		<b>\</b>	<b>&gt;</b>	<b>&gt;</b>	<b>\</b>	<u> </u>	$\rightarrow$
Octo CE Flash X2	0	X	X	X	2CH/4CE	>	<u> </u>	>	>	>	>	<u> </u>	<u> </u>
						O Install							
						X Don't Use							
						Don't Care							

## TOP View For Flash PCB Placement

## STACK UP



Layers St	ack Up			P/N: 15080401-00			35	10						÷
類型	結構	層別 Layer	假設的內層獎調率 (%) Assume Cu. Remain rate on inner layer(%)	材料型號 Material Type	ER (@2GHZ)	Thickness after laminate		Single (50+/-5		Differential (100+/-10ohms)			Ref.	
Type	Construction					(mil)	(mm)	Line Width (mil)	Simulate (ohm)	Line Width (mil)	Spacing (mil)	Simulate (ohm)	Layer	
		Top Solder Mask		R500-MBLH(1)	3.8	1.00	0.025					4 1		1
Metal		L1 - Signal		1/30Z+PLATING		1.50	0.038	4.00	49.80	3.30	8.30	100.60	L2	1
Dielectric		Prepreg		1080	3.6	2.60	0.066							1
Metal		L2 - GND	63.0%	0.5OZ		0.55	0.014					8 6 8		1
Dielectric		Core		0.003"	4	3.00	0.076				8	s 50		1
Metal		L3 - Signal	52.0%	0.5OZ		0.55	0.014	3.80	50.20				L2/L5	]
Dielectric		Prepreg		7628	4.2	7.84	0.199					9 8		]
Metal		L4 - Signal	45.0%	0.5OZ		0.55	0.014	3.80	50.20	3.40	8.20	100.60	L2/L5	1
Dielectric		Core		0.003"	4	3.00	0.076				0	g		1
Metal		L5 - VCC	61.0%	0.5OZ		0.55	0.014					8 9		1
Dielectric		Prepreg		1080	3.6	2.60	0.066							1
Metal		L6 - Signal		1/30Z+PLATING		1.50	0.038	4.00	49.80	3.30	8.30	100.60	L5	]
		Bottom Solder Mask		R500-MBLH(1)	3.8	1.00	0.025				6	8 9		]
	Box	ard thickness: 0.68+/	-0.07mm		Total:	26.24	0.666		, i					1

	Silicon Motion, INC.										
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Date: Thu	rsday, July 01, 2021	Sheet	5	of	5						