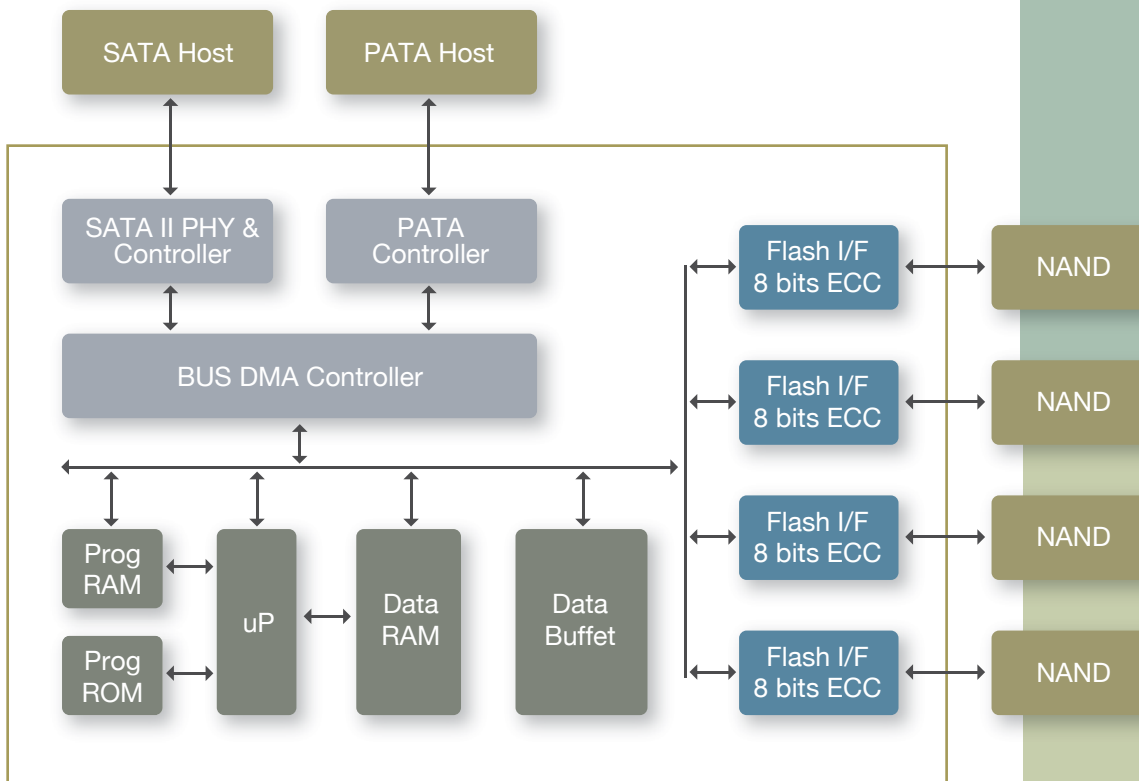


Mobile Storage **Zoom Family**

Silicon Motion' Zoom Family offers a complete product line of Solid State Drive (SSD) controllers that target personal computing, consumer electronics, industrial computing, enterprise, and other applications. End products utilizing our SSD controllers include: embedded systems, netbooks, notebook PCs, and servers. Our SSD controllers support SLC, MLC, and 3bits-per-cell NAND flash, as well as leading host interfaces such as PATA (IDE) and SATA II.

SM2240 Block Diagram



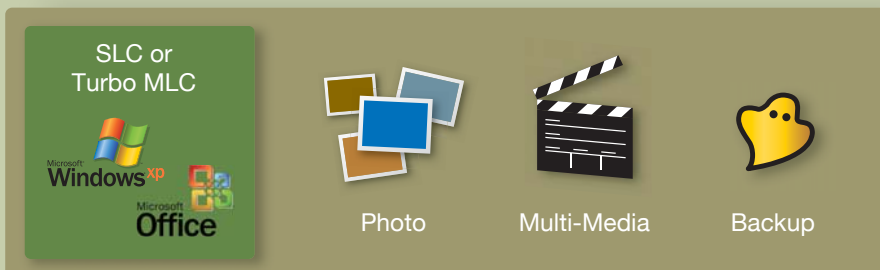
SSD Controllers

Parameter	SM2231	SM2233	SM2235	SM2240
Host standards	ATA-7	ATA-7	ATA-7	ATA-7
IDE PIO support	Mode 0~2	Mode 0~2	Mode 0~2	Mode 0~2
IDE Ultra DMA support	Mode 0~6	Mode 0~6	Mode 0~6	Mode 0~6
Flash interface	2-channel	4-channel	4-channel	4-channel
Voltage support	5V/3.3V	3.3V	3.3V	3.3V
ECC support	13&24bits/1Kbytes	8bits/512bytes	15bits/512bytes	8bits/512bytes
In-System-Programming support	Yes	Yes	Yes	Yes
Flash type support	SLC/MLC	SLC/MLC	SLC/MLC	SLC/MLC
Performance	R:50*MB/s; W:45*MB/s	R:90*MB/s; W:80*MB/s	R:90*MB/s; W:80*MB/s	R:100*MB/s; W:80*MB/s
Max capacity support	64GB	128GB	128GB	128GB
Process	0.16µm	0.16µm	0.16µm	0.16µm
Package	128-pin TQFP	144-pin BGA	144-pin BGA	128-pin TQFP
Hybrid mode support	--	--	Yes	--

Parameter	SM2241	SM2242	SM2244	SM2250
Host standards	ATA-7	SATA II	SATA II	SATA II
IDE PIO support	Mode 0~2	Mode 0~2	Mode 0~2	Mode 0~2
IDE Ultra DMA support	Mode 0~6	Mode 0~6	Mode 0~6	Mode 0~6
Flash interface	4-channel	4-channel	4-channel	8-channel
Voltage support	3.3V	3.3V	3.3V	5V
ECC support	8bits/512bytes	15bits/512bytes	13&24bits/1Kbytes	13&24bits/1Kbytes
External DRAM	--	--	Yes	Yes
In-System-Programming support	Yes	Yes	Yes	Yes
Flash type support	SLC/MLC	SLC/MLC	SLC/MLC	SLC/MLC
Performance	R:100*MB/s; W:80*MB/s	R:100*MB/s; W:80*MB/s	R:100*MB/s; W:100*MB/s	R:200*MB/s; W:200*MB/s
Max capacity support	128GB	128GB	TBD	TBD
Process	0.16µm	0.16µm	0.11um	0.11um
Package	128-pin TQFP	128-pin TQFP	TBD	TBD
Hybrid mode support	Yes	Yes	Yes	Yes

* This figure may vary on different platform

Simple Hybrid Mode Configuration



Premium Hybrid Mode Configuration

