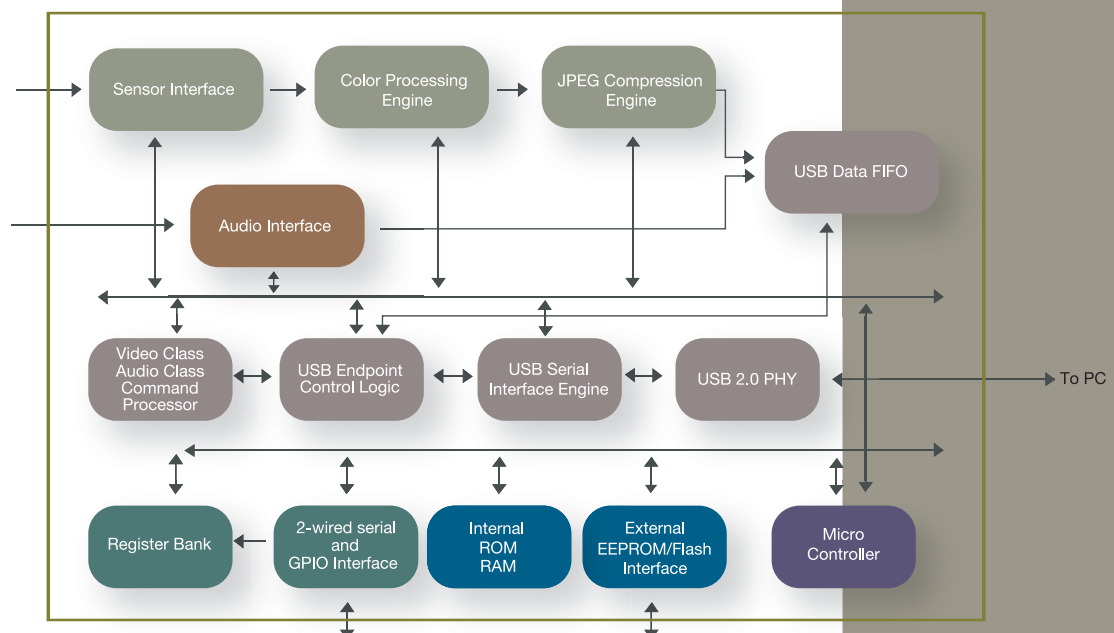


Multimedia SoCs Lumina Family

Silicon Motion's Lumina family offers single chip image controller for USB 2.0 UVC PC camera solution. The Lumina family integrates the color process engine, JPEG compression, AC-Link/IIS audio interface, and high-speed USB 2.0 device controller. Featuring a built-in USB transceiver, Serial Interface Engine (SIE), and command decoder with full USB 2.0/1.1 support, the Lumina family backs all systems equipped with legacy USB 1.1 host interface.

Diverse and flexible in function, it comes with an internal high-speed micro-processor, another set of built-in multi-function GPIO pins, and serial bus interface-in-chip. The Lumina family also supports UVC (USB Video Class) under Windows XP (Service Pack 2 & 3), Windows Vista, Windows 7, Mac OS X 10.4 & Linux environments, making it a convenient plug and play USB PC camera just like a USB disk.

SM371/373 Block Diagram



PC Camera SoCs

Parameter	SM371	SM373	SM371L	SM3711	SM3720
Max. sensor resolution	3M	5M	3M	VGA	5M
Support sensor type	YUV	YUV	YUV	YUV	YUV & RGB
USB	V2.0	V2.0	V2.0	V2.0	V2.0
UVC	Yes	Yes	Yes	Yes	Yes
UAC	--	Yes	--	--	--
MJPEG	60fps @ VGA 30fps @ 1.3M	60fps @ VGA 30fps @ 1.3M	--	--	60fps @ VGA 30fps @ 1.3M/2M
ISP	--	--	--	--	Up to 2M
Scale up	VGA → HD 720P/1.3M*	VGA → HD 720P/1.3M*	VGA → HD 720P/1.3M*	--	VGA → HD 720P/1.3M**
Digital Zoom/ Pan/ Tilt	Yes	Yes	Yes	--	Yes
Digital MIC	--	2ch	--	--	--
Analog MIC	--	I2S I/F	--	--	--
Package	QFN48	QFN48	LQFN46	QFN40	LQFN46

* Frame rate is limited in 7.5fps after scale-up from VGA

** Frame rate can reach 30fps after scale-up from VGA