

SB16C1158PCIe

		SystemBase	EXAR	MOSChip	PERICOM	PLX(Oxford)
PCIe	Specification	PCIe 2.0 Gen1	PCIe 2.0 Gen1	PCIe 1.1 Gen1	PCIe 1.1 Gen1	PCIe 1.1 Gen1
	Link, Speed	x1, 2.5Gbps	x1, 2.5Gbps	x1, 2.5Gbps	x1, 2.5Gbps	x1, 2.5Gbps
	Transaction	I/O and Memory	Memory	I/O and Memory	I/O or Memory	
	PCIe to Local Access	8/ 16/ 32 bits	8/ 16/ 32 bits	8 bits ?	8 bits	?
	PCIe Burst Rd/Wr	○	○	—	—	○
	PCI PM	v1.2	v1.2	○ ?	v1.2	v1.2
	EEPROM for config.	○	○	○	○	○
	max. payload size	256-byte	256-byte	?	256-byte	?
UART	Serial Channel	4/8	2 / 4 / 8	4 / 6 / 8 6S1P, 4S2P	2 / 4 / 8	2 / 4 / 8
	UART FIFO Size	256-byte	256-byte	256-byte	128-byte	128-byte
	Serial Speed	3.9Mbps	25Mbps	16Mbps	15Mbps	15Mbps
	Auto Toggling	○	○	—	—	○
	9-bit Comm.	○ Multi-drop with Auto Address Detection	○ Multi-drop with Auto Address Detection	—	—	○
	Auto-RTS/CTS	○	○	—	○	○
	Xon/Xoff	○	○	—	○	○
	IrDA	○	○	○	—	○
	Parallel	—	—	○	—	○ (2port only)
	FIFO Counter	○	○	—	○	?
	sleep mode	○	○	—	○	○
	32-bit data access	○	○	—	?	○
	Internal Loopback address	○ 5bits	○ 4 bits	—	○ ?	○ 3 bits
ETC	Operational Voltage	1.2V	3.3V Only Internal buck regulator for 1.2V	1.2V, 3.3V	1.8V & 3.3V	3.3V only internal buck regulator for 1.2v
	Process	0.13um	0.13um	0.13um	0.18um	0.13um
	GPIO	16	16	8	8	8 for exp.
	On Chip Oscillator	—	—	○	—	—
	Timer	—	16-bit timer/counter	—	—	—
	Expansion Bus Interface	—	○ 8-bit Bus	cascade 2 MCS9900+	—	○ PCIe95877리
	Temp	Industrial -40° to +85°	Industrial -40° to 85°	0° to 85°	Industrial -40° to 85°	Industrial -40° to 85°
	S/W support	Win2K/2K3/XP Win VISTA/7 Linux 2.6 ~	Win2K/2K3/XP Win VISTA/7 Linux 2.6 ~	Win2K/2K3/XP Win VISTA/7 Linux, DOS	Win 2K/2K3/XP/VISTA WinCE 5.0/6.0 Linux 2.6 ~	Win Vista/XP/2K WinCE 4.2/5.0/6.0 Linux 2.4/2.6
	Package	4: TQFP-144 8: TQFP-176	2: FPBGA-113 4: FPBGA-176 8: FPBGA-176	LQFP128	2: LQFP-128 4: LQFP-128 8: LFBGA-160	2: TFBGA-120 4: TFBGA-176 8: TFBGA-176