WinSystems' SBC Selection Guide

Designed for embedded applications, our SBCs will operate without a rotational disk, keyboard, or monitor over extended temperature ranges without the need of a fan. These products are x86-software compatible and will run standard operating systems, such as Windows® and Linux, along with real-time executives, utilities, and drivers to reduce your development time and quicken your product's time-to-market.

Product	PPM-LX800-G	PCM-VDX-2-512	PCM-VDX-1-256	EPX-C380-D2	EPX-C380-S2	EPX-C380-S1	EBC-C384-D2	EBC-C384-S2
Form Factor	PC/104-*Plus* 3.6" x 3.8" 90 x 96mm	PC/104 3.6" x 3.8" 90 x 96mm	PC/104 3.6" x 3.8" 90 x 96mm	EPIC 4.5" x 6.5" 115 x 165mm	EPIC 4.5" x 6.5" 115 x 165mm	EPIC 4.5" x 6.5" 115 x 165mm	EBX 5.75" x 8.0" 147 x 203mm	EBX 5.75" x 8.0" 147 x 203mm
CPU Type	AMD LX800	Vortex86DX	Vortex86DX	Intel Atom N510	Intel Atom N450	Intel Atom N450	Intel Atom N525	Intel Atom N455
Single/Dual Core	Single	Single	Single	Dual	Single	Single	Dual	Single
CPU Speed	500MHz	1GHz	500MHz	1.66GHz	1.66GHz	1.66GHz	1.8GHz	1.66GHz
Chipset	CS5536	Integrated	Integrated	ICH8M	ICH8M	ICH8M	ICH8M	ICH8M
System Memory	Up to 1GB (socket)	512MB (soldered)	256MB (soldered)	Up to 2GB (socket)	Up to 2GB (socket)	Up to 2GB (socket)	Up to 4GB (2 sockets)	Up to 2GB (socket)
Power Management	-	-	-	✓	✓	✓	✓	✓
CompactFlash Socket	✓	✓	✓	✓	✓	✓	✓	✓
Analog VGA	✓	-	-	✓	✓	✓	✓	✓
Flat Panel Support	Digital	-	-	LVDS	LVDS	LVDS	LVDS	LVDS
Custom Splash Screen	✓	-	-	✓	✓	✓	✓	✓
Simultaneous Video	✓	-	-	✓	✓	✓	✓	✓
10/100/1000 Ethernet	-	-	-	2	2	1	2	2
10/100 Ethernet	1	2	1	-	-	-	-	-
USB 2.0 Ports	2	4	4	8	8	4	8	8
RS-232/422/485	2	4	2	4	4	2	4	4
RS-232 Only	2	-	2	-	-	2	-	-
Digital I/O	16	16	16	48	48	48	48	48
PATA Interface	1	1	1	CF only	CF only	CF only	CF only	CF only
SATA Interface	-	-	-	2	2	2	2	2
SUMIT Connector	-	-	-	-	-	-	-	-
PC/104 Connector	✓	✓	✓	✓	✓	✓	✓	✓
PC/104-*Plus* Connector	✓	-	-	✓	✓	✓	✓	✓
MiniPCIe Socket	-	-	-	✓	✓	-	-	-
MiniPCI Socket	-	✓	✓	-	-	-	✓	✓
Keyboard & Mouse Interface	PS/2 or USB	PS/2 or USB	PS/2 or USB	USB	USB	USB	PS/2 or USB	PS/2 or USB
LPT	✓	✓	✓	✓	✓	✓	✓	✓
Audio	AC97	-	-	HD (7.1)	HD (7.1)	HD (7.1)	HD (7.1)	HD (7.1)
Fanless	✓	✓	✓	-	✓	✓	-	✓
Ext. Temp. Operation	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Voltage Required	+5	+5	+5	+5	+5	+5	+5	+5
RoHS Compliant	✓	✓	✓	✓	✓	✓	✓	✓