

SBC81820VEEE

Socket 478 Pentium® 4/Celeron™ SBC with SDRAM/VGA/Triple LAN



FEATURES

- ▶ Intel® 845S chipset supports differential FSB 400MHz
- ▶ Three 168-pin DIMM sockets support up to 3GB SDRAM
- ▶ Supports ATA-100 EIDE for the fastest data/file transfer
- ▶ Onboard SMI 712 VGA controller with 4MB video memory
- ▶ Onboard triple LAN, each supports 10/100BASE-T
- ▶ Wake On LAN support
- ▶ Onboard Mini PCI connector for flexible feature expansion
- ▶ PCI/ISA bridge for ISA expansions
- ▶ Onboard DiskOnChip® socket

SPECIFICATIONS

Processor/Cache	Intel® Pentium® 4 processors up to up-to-date frequency with L2 cache integrated in CPU Intel® Celeron™ processors up to up-to-date frequency with L2 cache integrated in CPU
Chipset	Intel® 845S
System Memory	Three 168-pin DIMM sockets support up to 3GB unbuffered ECC/non-ECC SDRAM
BIOS	Award 4Mbit PnP Flash BIOS
EIDE	Two independent channels for a total of four IDE devices; ATA-100 support
Super I/O	Controller: Winbond W83627 HF Serial port: two asynchronous, 1 x RS-232, 1 x RS-232/422/485, 10-pin Parallel port: One bi-directional with ECP/EPP/SPP support, 26-pin Floppy controller: support for two drives (1.44MB for each) Keyboard/mouse: 6-pin Mini-DIN connector for mouse or keyboard One internal 5-pin box-header for mouse One internal 5-pin box-header for keyboard
USB	Two USB ports (1.1)
IrDA	One IrDA pin-header for wireless communications
VGA	Controller: SMI 712 with CRT/LCD support Max. resolution: CRT up to 1280 x 1024 @256 colors LCD up to 1024 x 768 @16 bit colors Graphic memory: onboard 4MB SDRAM
LAN	Controller: integrated in 82801BA I/O controller Hub (ICH * 2) & dual Int@82559/1 Supports triple LAN, each with 10/100BASE-T, triple RJ-45 output Wake On LAN support
Connectors	D-type: LAN (RJ-45); PS/2 mouse and PS/2 keyboard SODIMM: LCD (1 x 44-pin) Pin-header: CRT (1 x 16-pin); USB (2 x 5-pin); serial port (2 x 10-pin); parallel port (1 x 26-pin); FDD (1 x 34-pin); EIDE (2 x 40-pin); PS/2 mouse (1 x 5-pin); PS/2 keyboard (1 x 5-pin); power supply (1 x 2-pin); 5 $\frac{1}{8}$ ATX power connector (1 x 6-pin)
SSD	Onboard DiskOnChip® socket
Hardware Monitoring	Controller: Winbond W83627HF Detection of CPU temperature, CPU board temperature, power failure and fan failure
Watchdog Timer	System reset or non-maskable interrupt software programmable time interval and jumper selectable (64-level)
Other Features	ITE 8888 PCI/ISA Bridge for ISA expansion Keyboard/mouse wake-up & modem ring-on via ATX power supply Suspend to RAM support ISA high drive support Onboard a Mini PCI socket for feature expansions
OS Compatibility	PC and MS-DOS™; Windows® 98; Windows® NT 4.0, Windows® 2000, Windows® XP; Novell Netware; Linux Red Hat; Salaris UNIX
MTBF	GEM reports at least 50,000 hours
Mechanical	338 x 122mm (13.3" x 4.8") Conforms to IEEE P996 PC/AT bus, PCI Rev. 2.1 and PICMG Rev.2.0 standard
Environmental	Operating temperature: 0°C to 60°C (32°F to 140°F); storage temperature: -10°C to +80°C (14°F to 176°F) Relative humidity: 95% non-condensing at temperature of 40°C or 104°F

ORDERING INFORMATION

Models Names	HISA	VGA	SCSI	LAN
SBC81820VEEE	^	^	X	Triple
SBC81820VEE	^	^	X	Dual
SBC81820VE	^	^	X	Single
SBC81820V	^	^	X	X

ACCESSORY OPTIONS

USB cable
AX8930 mini PCI Ultra SCSI module
AX8931A mini PCI IDE controller module
AX8930 mini PCI Gigabit Ethernet module
AX89331 mini PCI fast Ethernet module
AX92210 mini PCI IEEE 1394 module
AX92500 mini PCI network DES module
Slim P4 CPU Cooler

PACKING LIST

3.5" FDD cable x 1
3.5" HDD cable x 1
COM, printer extension cable with bracket x 1
PS/2 keyboard/mouse adapter x 1
Quick manual x 1
Utility CD x 1
VGA cable with bracket x 1 (only for VEEE version)
PS/2 mouse/USB/COM1 extension cable with bracket x 1
CPU retention bracket x 1

* All the specifications and photos are subjected to be changed without notice.