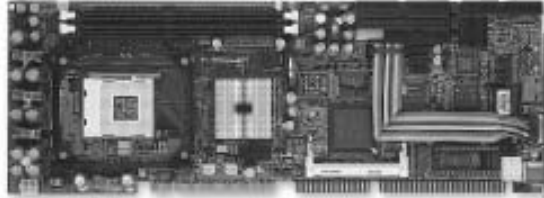


SBC81822VG

Socket 478 Pentium® 4/Celeron® SBC with VGA/Gigabit LAN/HISA



FEATURES

- ▶ Intel® 82845GV supports FSB 533MHz
- ▶ Two DIMM sockets support up to 2GB DDR Memory
- ▶ Different transfer rate as 10/100 and 10/100/1000Mbps with different number of LAN connections for selection
- ▶ Onboard mini PCI socket for feature expansion
- ▶ Onboard DiskOnChip® socket
- ▶ Supports optional features as LCD, TV-out Audio (upon customer's requirement)

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® 82845GV FSB 533MHz
System Memory	Two 184-pin DDR DIMMs sockets support max. up to 2GB unbuffered ECC/non-ECC DIMMS
BIOS	Award 4Mbit PnP Flash BIOS
EIDE	Two ATA-100 channels for a total of four IDE devices
Super I/O	Controller: Winbond W83627HF-AW Serial port: two asynchronous, 1 x RS-232 and 1 x RS-232/422/485, 2 x 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. Two internal 5-pin wafer for keyboard and mouse
USB	Six USB 2.0 ports
VGA	845GV chipset internal VGA Graphic memory: share memory with system main-memory
LAN	LAN1 and LAN2: Intel® 82559/82540 Ethernet controller support 10/100/1000 Mbps LAN3: integrated in 82801BA I/O controller Hub (ICH * 4) and support Intel® 82559/82540/82562EX Ethernet controller Wake On LAN support
Connectors	Mini-DIN: 1 x PS/2 mouse and PS/2 keyboard Mini-PCI: 1 x Mini-PCI connector RJ-45: 1 for VE, 2 for V2E and VEG, 3 for V3G (upon for customer requirement) Box-header: 1 x CRT (2 x 8-pin); 2 x serial port (2 x 5-pin); 1 x parallel port (2 x 13-pin); 1 x FDD (2 x 17-pin); 2 x EIDE (2 x 20-pin); 1 x Audio port (2 x 5-pin); 1 x LVDS port (2 x 44-pin, optional) Pin-header: 6 x USB (6 x 5-pin) Wafer: 1 x keyboard (1 x 5-pin); 1 x mouse (1 x 5-pin) Power Connector: 1 x (2 x 2-pin) for CPU ATX12V; 1 x (6-pin) wafer for 5Vsa
SSD	DiskOnChip® support
Hardware Monitoring	Controller: Winbond W83627HF-AW Detection of CPU temperature, system temperature, power failure and fan speed
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 solutions Keyboard wake-up via ATX power supply Suspend to RAM support
OS Compatibility	PC and MS-DOS™, Windows® 98, Windows® NT 4.0, Windows® 2000, Windows® XP, Novell Netware, Linux Red Hat
Mechanical	338 x 122mm (13.3" x 4.8") 6 layer PCB Compliant to PICMG rev.2.0 standard
Environmental	Operating temperature: 0°C to 60°C (32°F to 140°F), depends on CPU's speed Relative humidity: 95%, non-condensing at temperature of 40°C or 104°F

ORDERING INFORMATION

Models Names	HISA	VGA	SCSI	USB	Audio	Mini PCI	Watchdog Timer	Disk on Chip	RS422/485	Buzzer	LAN
SBC81822VG	√	√	Option	6	x	√	√	√	√	√	1 x Gigabit
SBC81822V2E	√	√	Option	6	x	√	√	√	√	√	2 x 10/100Mbps
SBC81822VEA	√	√	Option	6	√	√	√	√	√	√	1 x 10/100Mbps
SBC81822VEL	√	(LVDS & TV Out)	Option	6	x	√	√	√	√	√	1 x 10/100Mbps
SBC81822VELC	√	(LVDS & TV Out)	x	2	x	x	x	x	x	x	1 x 10/100Mbps
SBC81822VE	√	√	Option	6	x	√	√	√	√	√	1 x 10/100Mbps
SBC81822VEC	√	√	x	2	x	x	x	x	x	x	1 x 10/100Mbps
SBC81822V	√	√	Option	6	x	√	√	√	√	√	x
SBC81822VC	√	√	x	2	x	x	x	x	x	x	x
SBC81822V3GAL (with MOQ restriction)	√	(LVDS & TV Out)	Option	6	√	√	√	√	√	√	3 x Gigabit
SBC81822V2G (with MOQ restriction)	√	√	Option	6	x	√	√	√	√	√	2 x Gigabit
SBC81822VGE (with MOQ restriction)	√	√	Option	6	x	√	√	√	√	√	1 x Gigabit & 1 x 10/100Mbps

PACKING LIST

3.5" FDD cable x 1
3.5" HDD cable x 2
COM, printer extension cable with bracket x 1
PS/2 keyboard/mouse adapter x 1
Jumper pack x 1
Quick manual x 1 & Utility CD x 1
Audio cable x 1 (only for CBGAL & VEG)
VGA cable with bracket x 1 (only for SBC81822 V3GAL)

ACCESSORY OPTIONS

USB cable
AX8930 mini PCI Ultra 160 SCSI module
AX8931A mini PCI IDE controller module
AX89330 mini PCI Gigabit Ethernet module
AX89331 mini PCI Fast Ethernet module
AX92210 mini PCI IEEE 1394 module
Slim P4 CPU Cooler