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TECHNOLOGY GROUP

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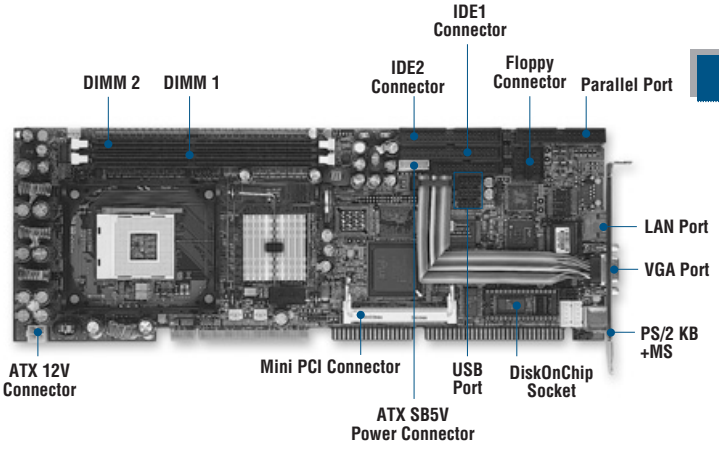
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SBC81822

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



Features

- Intel® Pentium® 4, Celeron®, Celeron® D processors supported
- Intel® 82845GV supports FSB 533MHz/400MHz
- 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 processor 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 * Intel® Celeron® D CPU
Chipset	Intel® 82845GV FSB 400MHz/533MHz
System Memory	Two 184-pin DDR DIMMs sockets support max. up to 2GB
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: 1 x RS-232 and 1 x RS-232/422/485, 2 x 10-pin * Parallel port: 1 x ECP/EPP/SPP port * 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	Intel® 845GV chipset integrated VGA Graphic memory: share system 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) ATX SB5V
SSD	DiskOnChip® supported
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
Mechanical	338 x 122mm (13.3" x 4.8") Compliant to PICMG Rev.2.0 standard
Environmental	Operating temperature: 0˚C to 60˚C (32˚F to 140˚F), depend on CPU Relative humidity: 95%, non-condensing at temperature of 40˚C (104˚F)

Ordering Information

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

Packing List

- FDD cable x 1
- Ultra ATA66/100 HDD cable x 1
- Printer + COM cable x 1
- Y cable for PS/2 keyboard/mouse x 1
- Jumper pack x 1
- Quick manual x 1
- Utility CD x 1
- VGA cable with bracket x 1 (only for SBC81822 V3GAL)
- Audio cable only for V3GAL & VEA

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

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