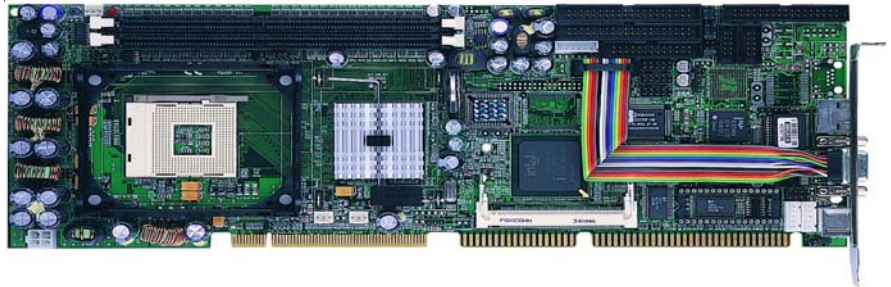


Overview:

The **VRM-SBC-81822VGGGAL** is a Socket 478 Pentium® 4/Celeron™ SBC with VGA/Triple Gigabit LAN/HISA/Audio.



Features:

- Intel® 82845GV supports FSB 533 MHz
- 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
- Support CRT, LCD and TV-out
- Onboard mini PCI socket for feature expansion
- 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® 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 ports
- **VGA**- 845GV chipset internal VGA
Graphic memory: share memory with system main-memory
- **LAN**- The LAN1 and LAN2 is Intel® 82559/82540 Ethernet controller support 10/100/1000Mb
The LAN3 is 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 VEE and VEG, 3 for VGGG
Box-header: 1 x CRT (2 x8-pin); 2 x serial port (2x 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 (2x44-pin)
Pin-header: 6 x USB (3 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 5V



Specifications continued:

- **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 standards
- **Environmental-** Operating Temperature: 0°C to 50°C (32°F to 122°F temperature)
Relative humidity: 95%, non-condensing at temperature of 40°C or 104°F

Ordering Options:

- **VRM-SBC-81822V3GAL-** HISA, VGA (LCD), 3 x Gigabit LAN, SCSI Option
- **VRM-SBC-81822V2G-** HISA, VGA, 2 x Gigabit LAN, SCSI Option
- **VRM-SBC-81822V2E-** HISA, VGA, 2 x 10/100Mbps, SCSI Option
- **VRM-SBC-81822VGA-** HISA, VGA, 1x Gigabit and 1 x 10/100Mbps LAN, SCSI Option
- **VRM-SBC-81822VEA-** HISA, VGA, 1 x 10/100Mbps LAN, SCSI Option
- **VRM-SBC-81822VE-** HISA, VGA, 1 x 10/100Mbps LAN, SCSI Option
- **VRM-SBC-81822VG-** HISA, VGA, 1 x Gigabit LAN, SCSI Option
- **VRM-SBC-81822V-** HISA, VGA, LAN Option, SCSI Option.

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