

# SBC86822VGGA

Socket 478 Intel® Pentium® M Mini ITX SBC with Intel® 910GML E + ICH6M Chipset, DualView, SATA and 6 COM Ports



## System

|                     |  |
|---------------------|--|
| CPU                 | Socket 478 for Intel® Pentium® M/Celeron® M processors with FSB 400 MHz; ULV Intel® Celeron® M processor 600MHz/512KB or 1GHz/ZC onboard   |
| System Memory       | 2 x 240-pin DIMM supports DDR2-400/533 max. up to 2 GB   |
| Chipset             | Intel® 910GML E + ICH6M  |
| BIOS                | Phoenix-Award  |
| SSD                 | 1 x CompactFlash™ type-II with DMA mode support (optional)   |
| Watchdog Timer      | 255 levels, 1~255 sec.   |
| Expansion interface | 1 x PCI for 32-bit PCI supports 2 bus masters  |
| Battery             | Lithium 3V/220 mAh   |
| Power Requirements  | *Intel® Celeron® 1.0 GHz/ZC, 1GB DDR2<br>Max. RMS: +5V_SBY @ 0.022A, +3.3V @ 0.68A, +5V @ 0.98A, +12V @ 0.579A, -12V @ 0.064A<br>*Intel® Pentium® M 2.0 GHz, 1GB DDR2<br>Max. RMS: +5V_SBY @ 0.022A, +3.3V @ 0.87A, +5V @ 3.876A, +12V @ 0.759A, -12V @ 0.079A |
| Size                | 170 x 170 mm   |
| Board Thickness     | 1.6 mm   |
| Temperature         | 0° ~ +60°C (32°F ~ 140°F), operation   |
| Relative Humidity   | 10% ~ 95% relative humidity, non-condensing  |

## I/O

|                     |  |
|---------------------|--|
| MIO                 | 1 x IDE; PATA-100<br>1 x PS/2 keyboard; 1 x PS/2 mouse<br>6 x RS-232; with +5V/+12V powered<br>1 x LPT; with SPP/EPP/ECP supported |
| SATA                | 2 x SATA-150   |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed   |
| Ethernet            | 2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B   |
| Audio               | AC'97 Codec audio as MIC-in/Line-out/Speaker-out with Realtek ALC655   |
| USB                 | 8 x USB 2.0  |
| SMBus               | System Management Bus for advanced monitoring/control interface  |
| Digital I/O         | 8 channels (4-IN & 4-OUT)  |

## Features

- Socket 478 for Intel® Pentium® M/ Celeron® M processor with FSB 400 MHz
- Intel® 910GML E + ICH6M chipset
- DualView with different content & resolution
- 8 USB 2.0 ports for high speed peripherals
- 2 Serial ATA-150 supported
- 6 COM ports



## Display

|                   |  |
|-------------------|--|
| Chipset           | Intel® GMA 900 graphics core                       |
| Memory Size       | Intel® DVM T 3.0 compliant                         |
| Display Interface | 1 x VGA<br>1 x LVDS; 18/24-bit single/dual channel |

## Packing List

|                 |   |
|-----------------|---|
| <b>Standard</b> | Quick installation guide, user's manual/utility CD, cable, CPU cooler (socket type) |
|-----------------|---|

|              |                         |     |
|--------------|-------------------------|-----|
| <b>Case</b>  |                         |     |
| Part Number  | Description             | Qty |
| 593836A0030E | SATA power cable 150mm  | 1   |
| 593826A0000E | SATA signal cable 500mm | 1   |

## Ordering Information

|  |  |
|--|--|
| <b>Standard</b>                              |  |
| SBC86822VGGA (P/N: E386822100)               | Socket 478 Mini ITX SBC with VGA, 18-bit single/dual LVDS LCD, 2 10/100/1000Mbps Ethernet (RTL8111B), AC 97 audio and 6 COM ports              |
| SBC86822VGGA-1GE (P/N: E386822101) (fanless) | Mini ITX SBC with ULV Intel® Celeron® M 1 GHz/0K CPU onboard, VGA/LVDS LCD, 2 10/100/1000Mbps Ethernet (RTL8111B), AC 97 audio and 6 COM ports |

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Slot CPU Cards

Accessories

Appendix