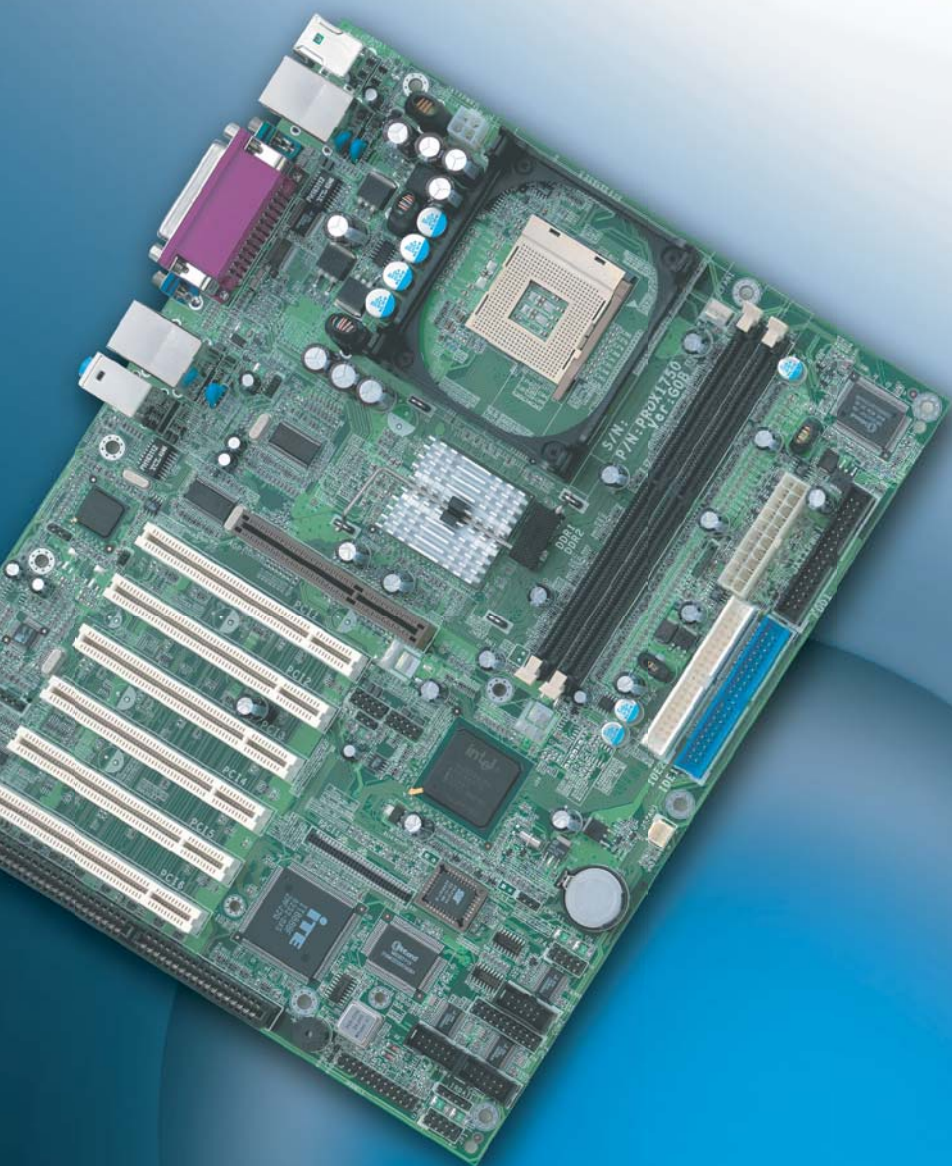# SBC

## Prox-1750-G2

### Socket 478 P4/P4-M Motherboard with VGA/Sound/2LAN

**Prox-1750-G2** is fitted with the Intel 845GE/GV chipset which is designed with the high performance 533/400 MHz system bus, integrated Intel ® Extreme Graphics technology, AGP4X card support, interoperable DDR-SDRAM memory, and is optimized to support the Intel ® P4 processor supporting Hyper-Threading Technology.

The Prox-1750-G2 provides USB 2.0 up to 6 ports. With a much higher bandwidth, USB 2.0 can reach data rates of up to 480Mbps; nearly 40 times faster than that of present USB 1.1. The Prox-1750-G2 also integrates Realtek ALC 202A, AC'97 codec, which supports excellent audio quality with up to two channels for full surround sound capability.

Onboard with two LANs, Intel ® 82562ET PHY with 10/100 base Ethernet and Intel ® 82551QM or Intel ® 82540EM up to 1Giga speed, Prox-1750-G2 can satisfy the needs for fast speed Internet experiences. It also conforms to the ATX form factor and has a total of two DIMM slots, supporting up to 2GB DDR200/266/333 SDRAM. Expansion slots are also available for 6 PCI, 1 ISA, and 1 PPCI port.

Further standard features include two EIDE interfaces, one FDD, four serial ports (COM2 is selectable for RS232/422/485), one parallel, one KB, one mouse, and one IrDA.
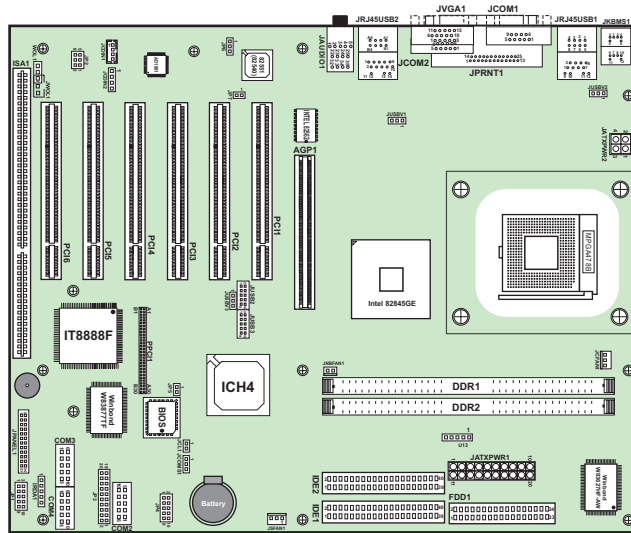
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**9001** 14001

# Prox-1750-G2 *Socket 478 Motherboard with VGA/Sound/2LAN*



## Specifications

| | |
|---|---|
| **CPU Type** | Intel ® P4/P4-M CPU |
| **CPU Voltage** | Auto detect |
| **CPU Frequency** | 1.4~3.X GHz & up reserved |
| **Chipset** | Intel ® 845GE/GV Chipset with ICH4, FWH |
| **DRAM** | 2 x 184-pin DDR DIMM up to 2GB |
| **Cache** | Built-in CPU |
| **BIOS** | Phoenix-Award PnP BIOS, 2MB, with VGA BIOS |
| **I/O Chipset** | LPC & Winbond |
| **IDE Interface** | 2 x EIDE (UDMA-33/66/100/133) |
| **FDD Interface** | 1 |
| **Serial Port** | 4 x 16550 UART, COM2 for RS232/422/485 |
| **Parallel Port** | 1 x parallel (SPP/EPP/ECP) |
| **Watchdog** | 16 level Watchdog Timer selectable w/ Reset/NMI |
| **CMOS** | Built-in ICH4 |
| **Keyboard** | Mini DIN connector |
| **Mouse** | Mini DIN connector |
| **Speaker** | Internal buzzer |
| **IrDA** | 1 x IrDA (SIR) |
| **VGA** | Built-in Intel®845GE/GV, support CRT & DVO (optional) |
| **LAN** | LAN1: Intel®82562ET PHY, 10/100 Base-TX Ethernet |
| | LAN2: Intel®82551QM or Intel ® 82540EM (10/100/1GB) |
| | Support Wake-on-LAN |

| | |
|---|---|
| **Sound** | Realtek ALC202A, AC '97 Codec |
| **USB** | 4 x USB 2.0, another two with pin header |
| **Bus Interface** | 1 ISA, 6 PCI, & 1 PPCI Bus |
| **Power Supply** | Support ATX 12V power |
| **Power Requirement** | +5V, +12V, and +3.3V |
| **Hardware Monitor** | Voltage, CPU temp. & cooling fan |
| **Green Function** | Controlled by hardware & software |

### Mechanical and Environment

| | |
|---|---|
| **Operation Temp.** | 0℃ ~ 60℃,  32℉ ~ 140℉ |
| **Storage Temp.** | –40℃ ~ 85℃, -40℉ ~ 185℉ |
| **Humidity** | 20~90% |
| **Vibration** | 2.5g acceleration over 5 to 2000Hz sine wave(p-p), 1 oct/min sine sweep |
| **Shock** | 30g, 11 msec duration, half-sine shock pulse |
| **Dimension** | 305mm x 244mm, 12" x 9.61" |

**Certificate: CE, FCC CLASS A**

### ORDERING INFORMATION

**Prox-1750-G2 with VGA/Sound/LAN1/LAN2:10/100 LAN**
**Prox-1751-G2 with VGA/Sound/LAN1/LAN2:Giga LAN**
**Prox-1752-G2 with VGA/Sound/LAN1, w/o LAN2**
**Prox-1753-G2 with VGA/Sound/LAN1, w/o LAN2, COM3/4**

## PERFORMANCE & POWER CONSUMPTION

| CPU Type | 3D Mark 2001 SE Build 330 | PC Mark 2002 | Power Consumption +5V / +12V / +3.3V |
|---|---|---|---|
| Pentium ® 4  2.8GHz | 1432 | 6754 | 1.78A / 5.31A / 0.25A |
| Pentium ᴿ 4-M  2.0GHz | 1165 | 4549 | 1.62A / 3.56A / 0.25A |

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