

VB Series

VIA VB8001

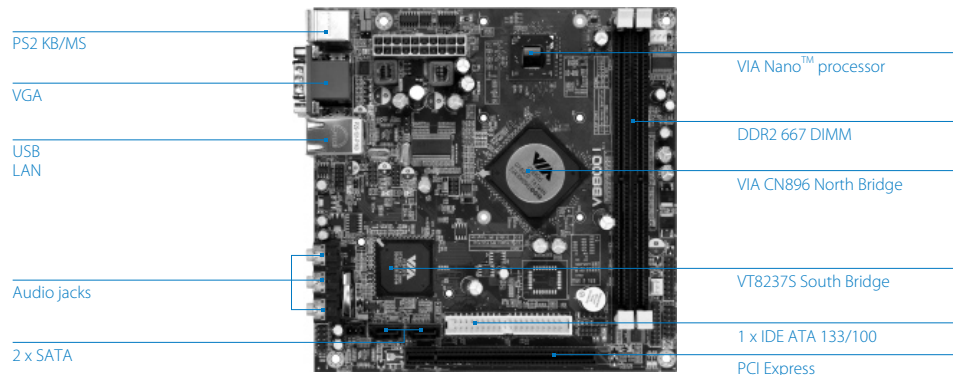
Mini-ITX Nano™ Board
with USB, Mini PCI, SATA,
GigaLAN

Features

- Integrated VIA Chrome9™ HC graphics with 2D/3D and video acceleration
- Supports DDR2 667 SDRAM
- Supports one IDE and two SATA hard drives
- Supports one PCIe Gigabit Ethernet
- Supports one VGA port
- Supports two COM ports
- Supports six USB 2.0 ports
- Supports one 16-lane PCIe and one Mini PCI



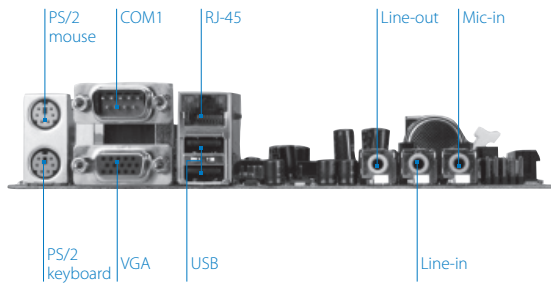
Board Placement



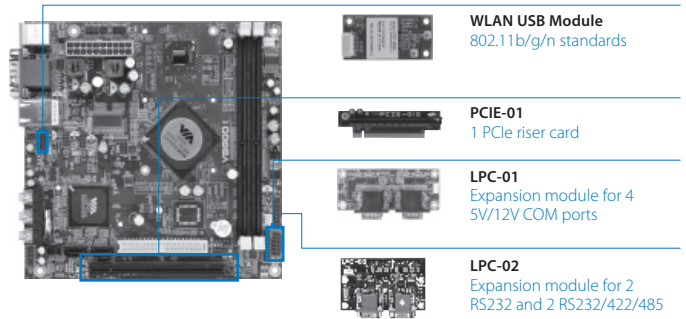
Specifications

Model Name	VB8001
Processor	1.6GHz VIA Nano™
Chipset	VIA CN896 North Bridge VT8237S South Bridge
System Memory	2 DDR2 533/667 DIMM sockets Up to 4 GB memory size
VGA	Integrated VIA Chrome9™ HC graphics with 2D/3D and video acceleration
Expansion Slots	1 x 16-Lane PCIe slot 1 x 32-bit Mini PCI slot
Onboard IDE	1 x UltraDMA 133/100/66 connector
Onboard LAN	1 x VIA VT6130 PCIe Gigabit Ethernet controller
Onboard Audio	VIA VT1708A High Definition Audio Codec
Onboard Super I/O	VIA VT1211 LPC Super I/O
Onboard I/O Connectors	2 x SATA connectors 2 x Fan pin connectors: CPU/Sys FAN 3 x USB pin connectors for 6 additional USB 2.0 ports (1 supports VIA WLAN module) 1 x Serial port pin connector for COM2 (5V/12V selectable) 1 x LPC header 1 x CIR pin connector (switchable for KB/MS) 1 x FIR pin connector (IrDA 1.0) 1 x SMBus connector 1 x Buzzer 1 x S/PDIF out pin connector 1 x Front panel pin connector 1 x Front panel audio pin connector (Mic-in and Line-out) 1 x ATX power connector
Back Panel I/O	1 x PS2 mouse port 1 x PS2 keyboard port 1 x Serial port 1 x VGA port 1 x GigaLAN port 2 x USB 2.0 ports 3 x Audio jacks: Line-out, Line-in and Mic-in (horizontal, Smart 5.1 Supported)
BIOS	Award BIOS, SPI 4/8Mbit flash memory
Operating System	Windows XP, Windows Embedded CE, Windows Embedded Standard, Linux
System Monitoring & Management	CPU/System voltage monitoring Watch Dog Timer Wake-on LAN, Keyboard Power-on, Timer Power-on AC power failure recovery
Operating Temperature	0 ~ 50 °C
Operating Humidity	0% ~ 95% (relative humidity; non-condensing)
Form Factor	Mini-ITX (6-layer) 17 cm x 17 cm

Back Panel I/O



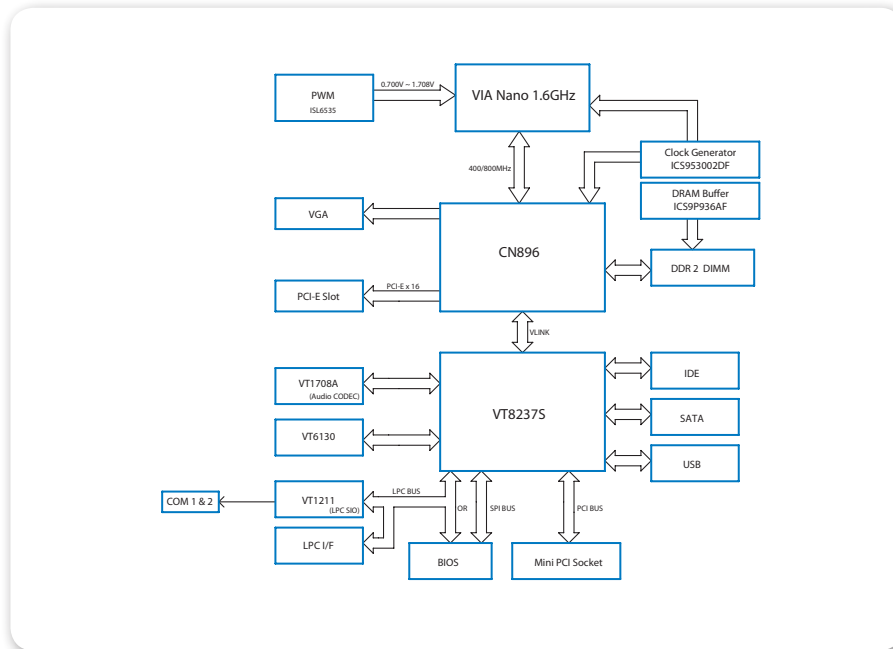
Accessories



Ordering Information

Model Name	CPU Frequency	Description
VB8001	1.6GHz Nano™	Mini-ITX Board with 1.6GHz Nano™, VGA, USB 2.0, COM, GigaLAN, SATA, Mini PCI, PCIe x16

Block Diagram



Packing List

Items
1 x ATA 133/100 IDE ribbon cable
1 x Driver CD
1 x I/O bracket
1 x SATA cable