

VB Series

VIA VB7007

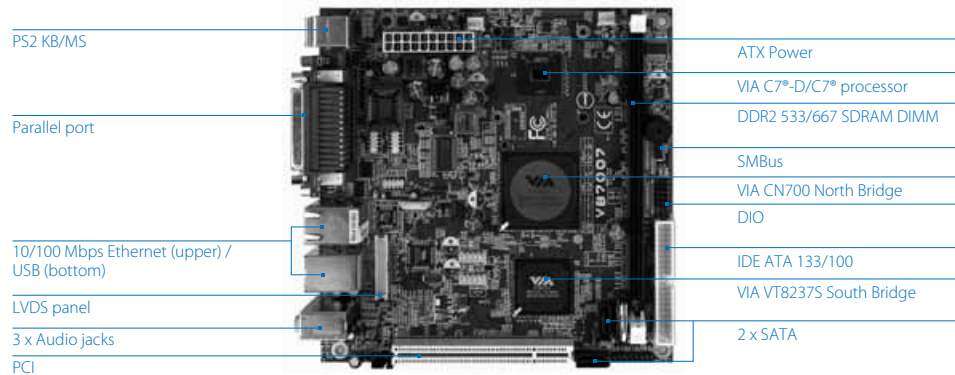
Mini-ITX C7®-D/C7® Board
with VGA, LVDS, USB, COM,
Dual LAN, IDE & SATA

Features

- Integrated VIA UniChrome™ Pro IGP graphics with MPEG-2 decoding acceleration
- Supports DDR2 533/667 SDRAM
- Supports one IDE and two SATA hard drives
- Supports dual 10/100 Mbps Ethernet (one Gigabit Ethernet as manufacturing option)
- Supports one VGA port
- Supports eight USB 2.0 ports
- Supports four COM ports
- Supports onboard dual-channel LVDS



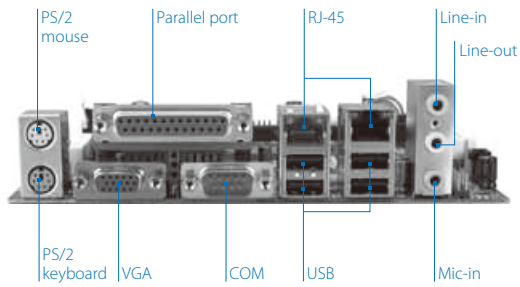
Board Placement



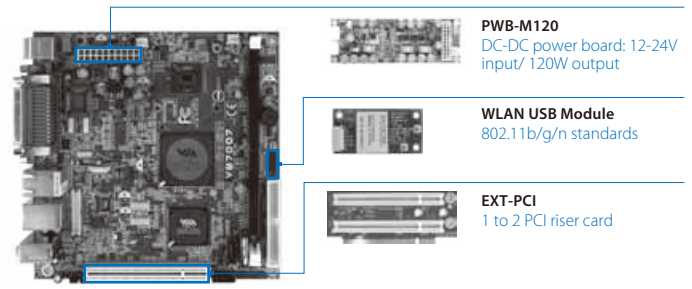
Specifications

Model Name	VB7007-16	VB7007-10E
Processor	1.6GHz VIA C7®-D with fansink	1.0GHz VIA C7® with heatsink
Chipset	VIA CN700 North Bridge VIA VT8237S South Bridge	
System Memory	1 x DDR2 533/667 DIMM socket (effective speed to 533MHz) Up to 1GB memory support	
VGA	Integrated VIA UniChrome™ Pro IGP graphics with MPEG-2 decoding acceleration	
Expansion Slots	1 x PCI slot	
Onboard IDE	1 x UltraDMA 133/100/66/33 connector	
Onboard LAN	1 x VIA VT6103L 10/100 Mbps Ethernet PHY 1 x VIA VT6107 10/100 Mbps Ethernet controller / 1 x VIA VT6122 Gigabit LAN controller (manufacturing option)	
Onboard Audio	VIA VT1708B HD Audio Codec	
Onboard I/O Connectors	3 x Serial port pin headers for COM2/3/4 (with 5V/12V select jumper) 1 x Digital I/O pin header (GPI x 4 & GPO x 4) 2 x USB pin headers for 4 USB 2.0 ports 2 x SATA connectors 1 x SMBus pin header 1 x SPDIF-out connector 1 x LVDS connector, for 18/24-bit dual channel LVDS panel 1 x LVDS panel power selector pin header (5V/3.3V) 1 x LVDS inverter pin header 1 x LVDS inverter power selector pin header (5V/12V) 1 x FIR pin header 2 x Fan connectors for CPU & SYS 1 x Front panel connector 1 x Front panel audio pin header 1 x ATX power connector	
Back Panel I/O	1 x VGA port 1 x Serial port 1 x Parallel port 4 x USB 2.0 ports 1 x Audio phone jack for Mic-in, Line-in & Line-out 1 x PS2 KB/MS port	
BIOS	Award BIOS, SPI 4/8Mbit Flash Memory	
Operating System	Windows XP, Windows Embedded CE, Windows Embedded Standard, Linux	
System Monitoring & Management	AC Power failure recovery, RTC Timer to Power on Wake-on LAN, Wake-on Keyboard, Wake-on Mouse	
Operating Temperature	0 ~ 50 °C	
Operating Humidity	0% ~ 95% (relative humidity; non-condensing)	
Form Factor	Mini-ITX (17cm x 17cm)	
Compliance	CE/FCC/RoHS	

Back Panel I/O



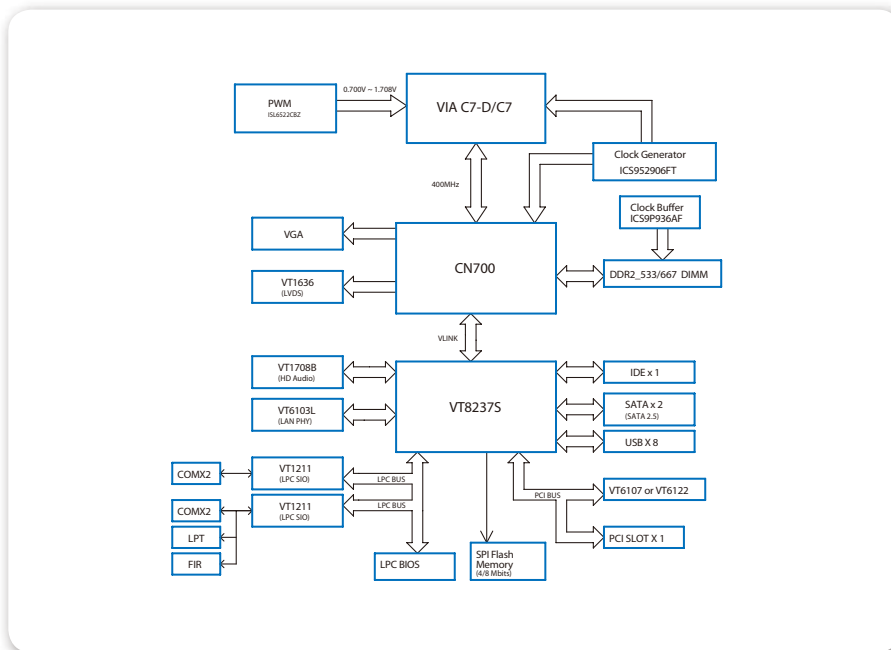
Accessories



Ordering Information

Model Name	CPU Frequency	Description
VB7007-16	1.6GHz C7®-D	Mini-ITX Board with 1.6GHz C7®-D CPU, VGA, LVDS, DVI, USB, 4 x COM, LPT, Dual LAN, 4 x GPI & 4 x GPO, IDE, SATA
VB7007-10E	1.0GHz C7®	Mini-ITX Board with 1.0GHz C7® CPU, VGA, LVDS, DVI, USB, 4 x COM, LPT, Dual LAN, 4 x GPI & 4 x GPO, IDE, SATA

Block Diagram



Packing List

Items
1 x SATA cable
1 x I/O bracket