

VB Series

VIA VB8002

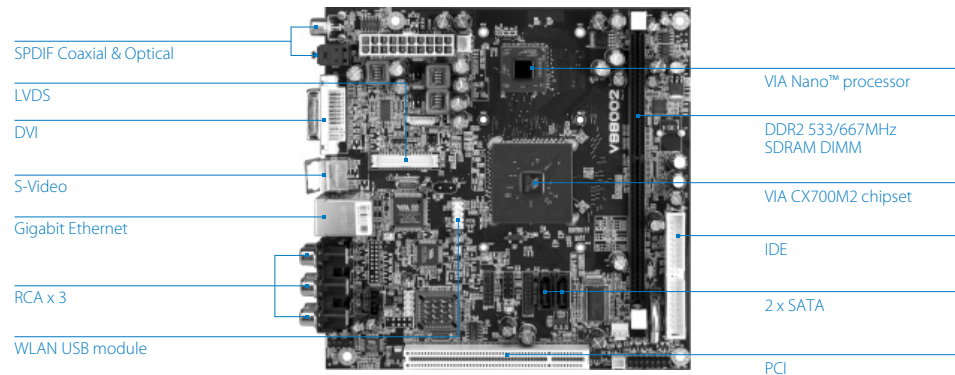
Mini-ITX Nano™ Board with
MPEG-2, WMV9, GigaLAN,
SATA, DVI & LVDS

Features

- Integrated VIA UniChrome™ Pro II 3D/2D AGP graphics with MPEG-2 and WMV9 decoding acceleration
- Supports HD Audio, with back panel I/O RCA (L+R) to support 2-CH; with S/PDIF output to have 8-CH audio experience
- Supports onboard single-channel LVDS and back panel DVI-I connector
- Supports HDTV resolution TV-out and with S-Video, Composite & Component RCA connectors available in the back panel
- Supports Gigabit Ethernet
- Supports six USB 2.0 ports (four as pin headers)
- Onboard LPC and SMBus pin headers



Board Placement

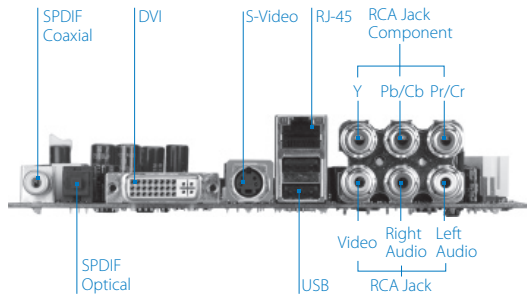


Specifications

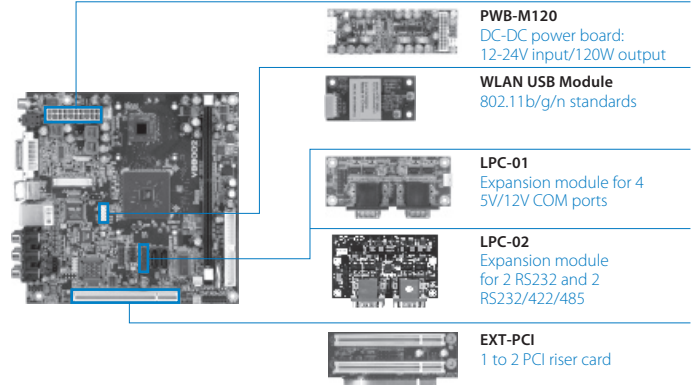
Model Name	VB8002-16
Processor	1.6GHz VIA Nano™
Chipset	VIA CX700M2 Unified Digital Media IGP chipset
System Memory	1 x DDR2 533/667MHz SDRAM DIMM socket (effective speed to 533 MHz) Up to 1GB memory size*
VGA	Integrated VIA UniChrome™ Pro II 3D/2D AGP graphics with MPEG-2 and WMV9 decoding acceleration
Expansion Slots	1 x PCI slot
Onboard IDE	1 UltraDMA 133/100/66/33 connector
Onboard LAN	1 x VIA VT6122 Gigabit Ethernet controller
Onboard Audio	VIA VT1708A High Definition Audio Codec
Onboard TV Out	VIA VT1625M HDTV Encoder
Onboard I/O Connectors	2 x USB pin connector for 4 additional USB 2.0 ports 1 x Front panel audio header for HP-out and Mic-in 1 x Audio Line-in header 1 x LPC header 1 x LVDS connector, for 18/24-bit single LVDS panel 1 x TV out header for SCART (RGB) and D-terminal (optional) 1 x Video pin connector for CCIR656/601 video input and SMBus 1 x PS2 mouse/keyboard header 2 x SATA connectors 2 x Fan pin connectors for CPU and system fans 1 x ATX power connector
Back Panel I/O	1 x DVI port 1 x GigaLAN port with 2 x stack USB 2.0 ports 1 x miniDIN for S-Video port 1 x Triple RCA jack for composite video and stereo audio outputs 1 x Triple RCA jack for component video output 1 x S/PDIF coaxial connector 1 x S/PDIF optical connector
BIOS	Award BIOS LPC 4/8Mbit flash memory
Operating System	Windows XP, Windows Embedded CE, Windows Embedded Standard, Linux
System Monitoring & Management	Wake-on LAN, Keyboard Power-on, Timer Power-on System power management, AC power failure recovery
Operating Temperature	0 ~ 50 °C
Operating Humidity	0% ~ 95% (relative humidity; non-condensing)
Form Factor	Mini-ITX 17 cm x 17 cm

*DDR2 SDRAM chips organized as 128Mb x 8 bank are not supported.

Back Panel I/O



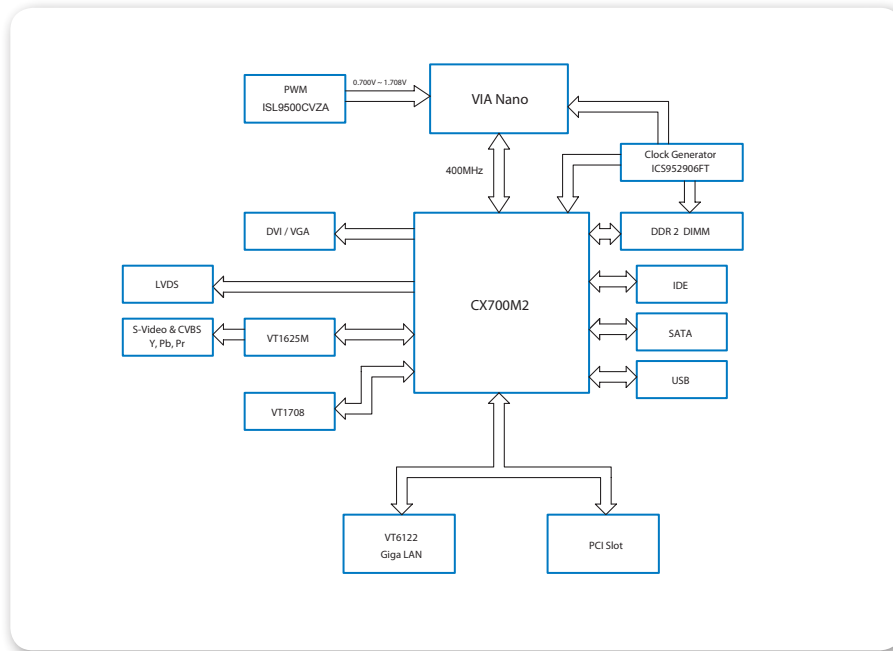
Accessories



Ordering Information

Model Name	CPU Frequency	Description
VB8002-16	1.6GHz Nano™	Mini-ITX Board with 1.6GHz Nano™, DVI, USB, LVDS, GigaLAN, TV-out, SATA, Coaxial & Optical SPDIF-out

Block Diagram



Packing List

Items
1 x Box content card
1 x SATA cable
1 x Driver CD
1 x I/O bracket
1 x Screw accessory