

## 3.5" SBC Series

### VIA VB9001

Highly-integrated low-power platform ideal for network firewall and router applications

#### Features

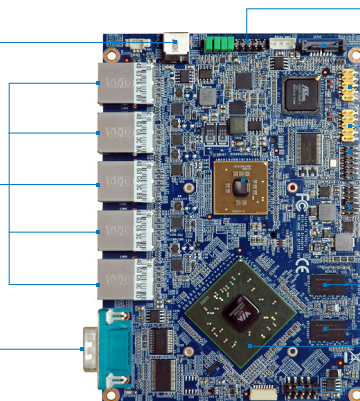
- Compact 3.5" SBC form factor
- Fanless 1.06GHz VIA Eden® X1 processor
- 1GB DDR3 SDRAM onboard
- DX9 graphics with MPEG-2/WMV9/VC1/H.264 decoding acceleration
- Five Gigabit Ethernet ports

#### Board Placement

12V DC-in

Ethernet

COM



GPIO

SATA

USB 2.0

VGA

1.06GHz VIA Eden® X1 CPU

Front Panel

DDR3 SDRAM

VIA VX900 Chipset

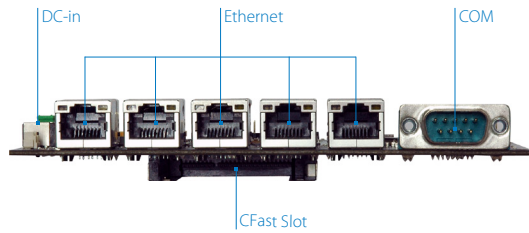
SPI

#### Specifications

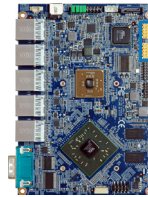
<b>Model Name</b>	<b>VB9001</b>
<b>Processor</b>	1.06GHz VIA Eden® X1 (Fanless)
<b>Chipset</b>	VIA VX900 Media System Processor
<b>BIOS</b>	AMI Aptio UEFI BIOS, 8Mbit Flash memory
<b>System Memory</b>	1GB DDR3 SDRAM onboard
<b>Storage</b>	1 SATA connector 1 CFast slot
<b>Graphics</b>	Integrated VIA C-9 HD DX9 3D/2D graphics with MPEG-2, WMV9, VC1 and H.264 video decoding acceleration
<b>LAN</b>	5 Realtek RTL8111G PCIe Gigabit Ethernet controllers
<b>Onboard I/O</b>	1 SATA connector 1 SATA power connector 1 VGA pin header 2 USB 2.0 pin headers for 4 ports 1 Digital I/O pin header (4 GPI + 4 GPO) 1 Fan pin header 1 Power LED
<b>Back Panel I/O</b>	1 COM port 5 Gigabit Ethernet ports 1 DC-in jack
<b>Power Supply</b>	12V DC-in
<b>Operating System</b>	Windows 7, Windows CE 5.0, QNX
<b>VIA Smart ETK</b>	BIOS flash tool, Hardware monitor, Watchdog timer, GPIO
<b>Operating Temperature</b>	0°C ~ 60°C
<b>Operating Humidity</b>	0% ~ 95% (non-condensing)
<b>Form Factor</b>	3.5" SBC (14.6cm x 10.2cm, 5.7" x 4")
<b>Compliance</b>	CE, FCC



## Back Panel I/O



## Accessories



**EMIO-5531 USB Wi-Fi + BT Module**  
802.11b/g/n standards  
Bluetooth 2.1 + EDR specification

## Ordering Information

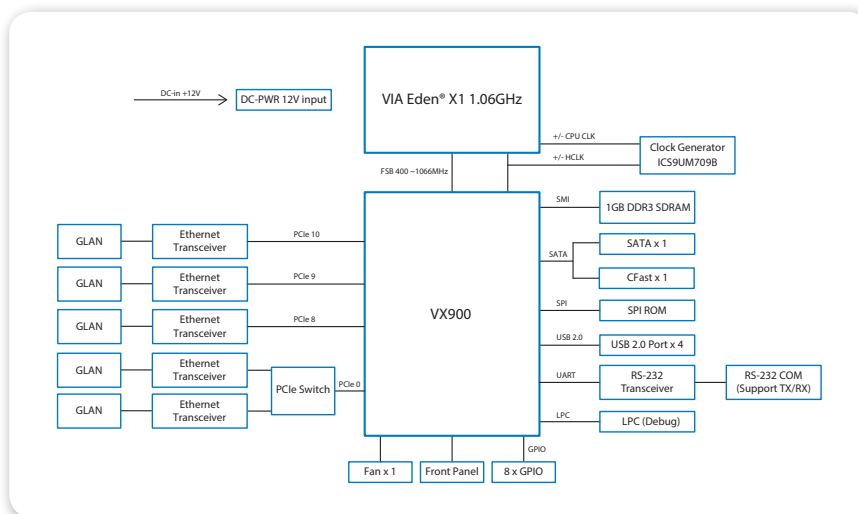
Model Name	CPU Frequency	Description
VB9001-10E	VIA Eden® X1 @ 1.06GHz	3.5" SBC Board with 1.06GHz VIA Eden® X1 CPU, VGA, 4 USB 2.0, 1 COM, DIO, 5 Gigabit Ethernet, 1 SATA, 1 CFast slot, 12V DC-in

## Optional Accessories

### Wireless Accessories

Part Number	Description
00GO27100BU2B0D0	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi dongle
EMIO-5531-00A1	VAB-820-W IEEE 802.11 b/g/n USB Wi-Fi + Bluetooth module with assembly kit and antenna

## Block Diagram



## Packing List

Items
VB9001 board
SATA cable
SATA power cable