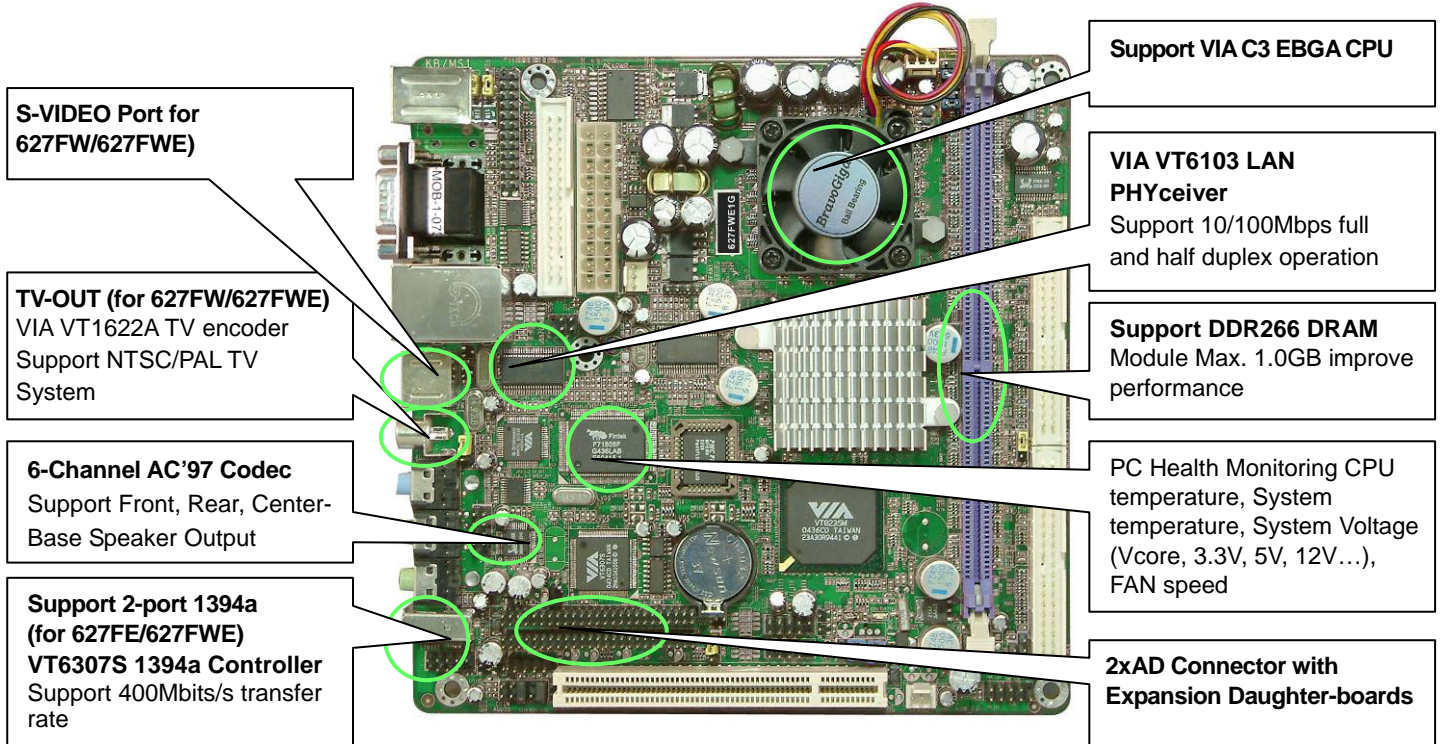# 627F/627FE 627FW/627FWE

VIA VT8623(CLE266) CHIPSET With 3D AGP VGA & Software Audio Controller with AC'97 CODEC / ATA133 /LAN /USB2.0 VIA C3 EBGA CPU Mini ITX Main Board

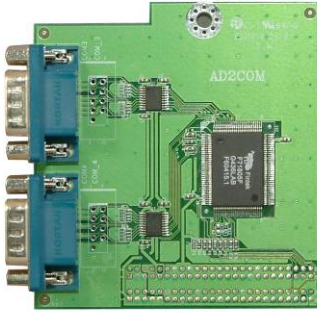## Support VIA C3 EBGA CPU/ 1394/ Expansion Daughter-board

S-VIDEO Port for 627FW/627FWE)

TV-OUT (for 627FW/627FWE)
VIA VT1622A TV encoder Support NTSC/PAL TV System

6-Channel AC'97 Codec
Support Front, Rear, Center-Base Speaker Output

Support 2-port 1394a (for 627FE/627FWE)
VT6307S 1394a Controller Support 400Mbits/s transfer rate

Support VIA C3 EBGA CPU

VIA VT6103 LAN PHYceiver
Support 10/100Mbps full and half duplex operation

Support DDR266 DRAM
Module Max. 1.0GB improve performance

PC Health Monitoring CPU temperature, System temperature, System Voltage (Vcore, 3.3V, 5V, 12V…), FAN speed

2xAD Connector with Expansion Daughter-boards

Processor
– Support VIA C3 processor in EBGA packaging, for 133MHz Front Side Bus Frequency

Chipset
– VIA VT8623 North Bridge
– VIA VT8235 High Bandwidth Vlink Client South Bridge

Expansion Slot
– Support 1xPCI Slot (PCI 2.2)

System Memory
– 1 x 184-pin DDR Module Sockets Support Max 1GB, 2.5V DDR266 DDR SDRAM
– Support 8/16/32/64MB frame buffer

Magic Setting
– Support CPU Front Side Bus step by step setting in BIOS SETUP let users have many choice when use over-clock function

On board LAN
– Support IEEE 802.3 10/100 BASE T Standard
– Support Boot On LAN function

Ultra DMA 133
– Support 2 x Ultra DMA 133 IDE Interface (Up to 4 IDE Devices & 133MB/s transfer rate)
– ATAPI IDE CD-ROM, CD-R,CD-RW and LS-120 Support

PC'99 Colorful I/O Ports
– 6xUSB 2.0 Ports, 1xParallel Port, 1xVGA Port, 2xSerial Ports(1xheader,1xConn.)
– 1xPS/2 Keyboard Port, 1xPS/2 Mouse Port, 1xFloppy Port
– Line-in/out/MIC Audio Ports

On Board 1394a Port (for 627FE/627FWE)
– Compliant with 1394a OHCI specification Version 1.0
– Compliant with IEEE 1394a-2000 standard, support 400Mbit/s

On Board VGA
– 16/32/64MB frame buffer using system memory
– Internal AGP 8X performance
– 128bit 2D/3D graphics engine
– 24bit true-color RAMDAC up to 250MHZ pixel

On Board Audio
– Software Audio Controller with Onboard 6-Channel CODEC Compliant to AC97'
– Support 3D Surround & Positioning, Full Duplex

TV-OUT (for 627FW/627FWE)
– VIA VT1622A TV encoder
– Support NTSC/PAL TV system S-Video/AV Output
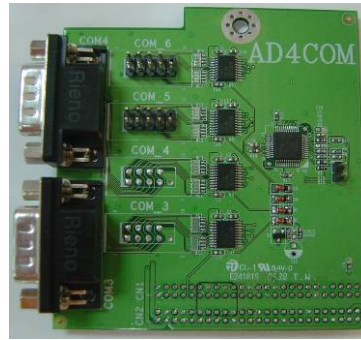
Dimension
Mini ITX form factor (17cm x 17cm)

Expansion Daughter-boards(optional)
– AD2COM: For 2xCOM Ports Added
– ADRTLAN-P/ADRTLAN-G: For 2nd 10/100 or 10/100/1000 Ethernet LAN
– ADPCM: Card Bus Type I + II Supported Expansion Interface With CF Compatible Card Reader
– ADCF: IDE Interface Supported CF Compatible Disk On Module

DC-DC 12V Power Supply Board (optional)
12V Mini-ITX Power supply
- 60Watt DC-DC power supply
- ATX standard compliant
- 12V operation
- 100% silent, small footprint
- Plugs directly into the motherboard ATX connector

Special Function
● ACPI supporting for OS Directed Power Management
  - MODEM Ring remote wake up
  - RTC Alarm, Keyboard Power On
  - Software power off
  - Power button
● Meets PC 99 Requirements
● PC Health Monitor CPU temperature, System temperature, System voltage (Vcore,Vtt,Vcc3,5V,12V……) , FAN speed

Trademark
∗ Product and Company names mentioned herein may be the trademarks of their respective owners.
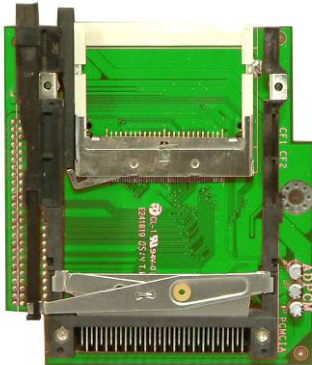

Expansion Daughter-boards (optional)
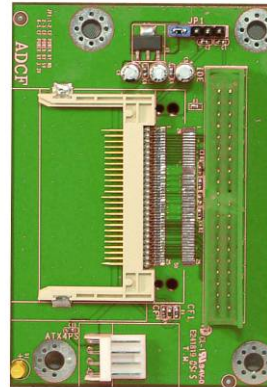

AD2COM
For 2xCOM Ports Added

AD4COM
For 4xCOM Port Added

ADPCM
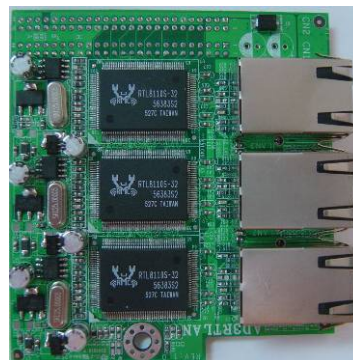**Card Bus Type I + II Supported Expansion Interface With CF Compatible Card Reader**

ADCF
IDE Interface Supported CF Compatible Disk On Module

ADRTLAN-P/ADRTLAN-G
For 2nd 10/100 or 10/100/1000 Ethernet LAN

AD3RTLAN-P/AD3RTLAN-G
For 2nd, 3th , 4th 10/100 or 10/100/1000 Ethernet LAN

ADLVCOM
-LVDS Panel Controller and Serial Port
-VIA VT6135 Support LVDS signal for LVDS Panel
-2 Serial Port support RS232 Communication Port

AD12VB
12V Mini-ITX Power supply
- 60Watt DC-DC power supply
- ATX standard compliant
- 12V operation
- 100% silent, small footprint