

# G3C100-PC8

## VIA® CLE266 Mini-ITX System Board

**PROCESSOR**

- VIA® C3 800MHz processor (EBGA packaged)

**CHIPSET**

- VIA® CLE266 and VT8235
  - VIA® CLE266 (VT8623) north bridge with integrated AGP graphic core
  - VIA® VT8235 south bridge

**SYSTEM MEMORY**

- Two 184-pin DDR SDRAM DIMM socket
- 2.5V unbuffered PC1600 (DDR200) or PC2100 (DDR266) DDR SDRAM DIMM
- Supports up to 2GB system memory using 64Mbit, 128Mbit, 256Mbit or 512Mbit x8/x16 technology

**BIOS**

- Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play compatible
- Supports SCSI sequential boot-up
- Supports DMI 2.0 function
- 2Mbit flash memory
- Supports TFT panel BIOS core

**ENERGY EFFICIENT DESIGN**

- Supports ACPI specification and OS Directed Power Management for ATX power supply
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
  - Wake-On-PS/2 Keyboard/Mouse
  - Wake-On-USB Keyboard
  - Wake-On-Ring
  - RTC timer to power-on the system
- System power management supported
- CPU stopped clock control
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v1.0a specification

**DAMAGE FREE INTELLIGENCE**

- Monitors CPU/system temperature
- Monitors CPU/VCC3/5V/12V/VBAT/5VSB voltages
- Monitors CPU fan and chassis fan speed
- Read back capability that displays temperature, voltage and fan speed
- Supports Watchdog Timer function

**ONBOARD GRAPHICS FEATURES**

- Graphics memory
  - Shares 16M/32M/64M frame buffer of the system memory
  - Optimized Share Memory Architecture (SMA)
- Graphics controller
  - 133MHz for internal graphic engine clock
  - Integrated 250MHz DAC
  - Microsoft® DirectX 7.0 and 8.0 compensation
  - High quality texture filter modes: nearest, linear, bi-linear and anisotropic
  - Hardware MPEG2 decode engine
  - Supports CRT with resolution up to 1920x1440 @ 60Hz refresh
  - 3M triangles/sec setup engine
- Software drivers
  - Windows® 98SE/2000/ME/XP
  - Windows NT® 4.0

**EXTENSIVE DISPLAY SUPPORT**

- Direct TFT flat panel interface up to 24-bit data width; supports 18, 24 or 18+18 TFT panel with LVDS encoders
- Supports TFT panel with resolution up to 1600x1200

**ONBOARD AUDIO FEATURES**

- AC'97 supported with full duplex, independent sample rate converter for audio recording and playback
- Standard AC'97 version 2.1
- Supports Microsoft® DirectSound
- 2-channel audio output

**ONBOARD LAN FEATURES**

- VIA VT6103 ethernet Phy controller
- Single chip 100Base-TX/10Base-T Physical Layer Solution
- MII interface to ethernet controller
- 10/100 auto sensing
- IEEE 802.3 and 10BASE-T/100BASE-TX compliant physical layer interface
- IEEE 802.3u auto-negotiation

**IDE INTERFACE**

- Supports ATA/33, ATA/66, ATA/100 and ATA/133 hard drives
- PIO Mode 4 Enhanced IDE (data transfer rate up to 16.6MB/sec.)

**REAR PANEL I/O PORTS**

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 3 DB-9 serial ports
- 1 DB-15 VGA port
- 1 RJ45 LAN port
- 4 USB 2.0/1.1 ports
- 3 audio jacks: mic-in, line-in and speaker-out

**I/O CONNECTORS**

- 1 connector for 2 additional external USB 2.0/1.1 ports
- 1 LVDS LCD panel connector
- 1 LCD/Inverter power connector
- 1 connector for 1 external serial port
- 1 front audio connector for speaker-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-out connector
- 1 connector for IrDA interface
- 1 parallel connector
- 1 40-pin IDE 1 connector for 3.5" HDD
- 1 44-pin IDE 2 connector for 2.5" HDD (2.0 pitch)
- 1 floppy connector (FPC type)
- 1 ATX power supply connector
- 2 fan connectors

**EXPANSION SLOTS**

- 1 PCI slot for PCI expansion card or customized riser card for 1, 2 or 3 PCI slots expansion (for low profile PCI card only)

**COMPATIBILITY**

- PCI 2.2 and AC'97 compliant

**PCB**

- 6 layers, Mini-ITX form factor
- 17cm (6.7") x 17cm (6.7")