

Rev. Controlled Motherboard: G3C400-N Series**PROCESSOR**

- VIA® Eden 600MHz processors(BGA) (G3C400-N6)
- VIA® C3 800MHz or later processors (socket)(G3C400-N8 Special Order)

CHIPSET

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

SYSTEM MEMORY

- One 184-pin DDR SDRAM DIMM socket
- 2.5V unbuffered PC1600 (DDR200) or PC2100 (DDR266) DDR SDRAM DIMM
- Supports up to 1GB system memory using 64Mbit, 128Mbit, 256Mbit or 512Mbit technology

BIOS

- Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play compatible
- Supports SCSI sequential boot-up
- Flash EPROM for easy BIOS upgrades
- Supports DMI 2.0 function
- 2Mbit flash memory
- Supports TFT panel and Digital TV output 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-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
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature
- Monitors Vcore/VCC3/5V/12V/ VBAT/5VSB voltages
- Monitors CPU fan speed
- Read back capability that displays temperature, voltage and fan speed

ONBOARD GRAPHICS FEATURES

- Graphics memory
 - Shares 8M/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
 - Internal AGP 8x performance
 - Hardware MPEG2 decode engine
 - 2D display up to 1920x1440 @ 60Hz refresh
 - 3M triangles/sec setup engine
- Software drivers
 - Windows® 98SE/2000/ME/XP
 - Windows NT® 4.0



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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
- Interface for external TV encoder
- Supports TFT panel up to 1600x1200 resolution

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

- Uses 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
- 48-pin SSOP, 3.3V device

PCI 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.)
- ATAPI CD-ROM, LS-120 and ZIP supported

I/O CONNECTORS

- 3 USB 2.0/1.1 pin headers (yellow)
- 1 RJ45 LAN pin header
- 4 serial pin headers (COM 4 can be switched between RS232, RS422 and RS485 protocols)
- 1 VGA pin header
- 1 parallel pin header
- 1 keyboard and mouse pin header
- 1 LVDS box header (COM 3 can be used as touch screen interface)
- 1 TV-out pin header
- 1 audio output pin header for line-in, line-out and mic-in
- 1 IDE box header
- 1 IDE CompactFlash™ socket
- 1 connector for panel power supply
- 1 connector for IrDA interface
- 1 floppy pin header
- 1 ATX power supply connector
- 1 CPU fan connector
- 1 LAN access LED pin header
- 1 LAN speed LED pin header
- 1 front panel pin header for PS-ON, HDD LED, PWR LED and reset switch

EXPANSION SLOT

- 1 PCI slot

COMPATIBILITY

- PCI 2.2 and AC'97 2.1 compliant

CIRCUIT BOARD (PCB)

- 6 layers, EBX form factor
- 20.4cm (8.03") x 14.5cm (5.70")

SAFETY

- UL, cUL, FCC, Class B, CE (Pending)