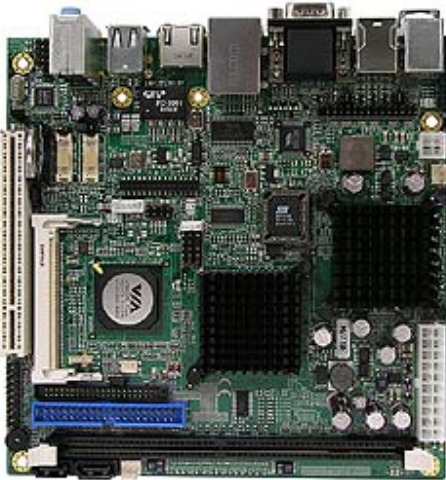


MB770 VIA Eden-V4 CN700-based Mini-ITX Motherboard



[\(Click to enlarge\)](#)
[Datasheet in PDF](#)

FEATURES

- VIA CN700 Chipset with VIA Eden-V4 CPU
- Up to 1.8GHz CPU speed and 1GB DDRII memory
- Integrated VGA, support 18/24-bit LVDS LCD
- 10/100 LAN1 on board, Optional Gigabit LAN for LAN2
- 6 x USB, 2 x SATA ports
- 4 COM ports, Watchdog timer
- PCI and Mini PCI slots on board, Optional TV out

USB

6 ports, USB 2.0 (4 ports onboard, 2 via pin header)

Serial ATA

2 ports, support RAID 0, 1

IrDA

Pin header on board

IDE Interface

Two channels; supports Ultra DMA 33/66/100/133
40-pin box-header x 1 (IDE1), 44-pin header x 1 (IDE2)

FDD Interface

Slim type connector supports slim type FDD drives

Watchdog Timer

Generates system reset; 256 levels

Keyboard and Mouse

PS/2 type connectors

Expansion Slots

1 PCI support 2 bus master, Mini PCI slot

Edge Connectors

PS/2 Keyboard/Mouse

VGA CRT, COM1

Optional RCA Jack, S-Video for TV out

Optional DVI via ID393

RJ-45 for LAN1 + USBx2 (USB0, 1)

RJ-45 for LAN2

Audio (Speaker, Line in, Mic)

Power Connector

ATX

Form Factor

Mini ITX motherboard

Dimensions

170mm x 170mm

Operating Temperature

0°C~60°C (32°F~140°F)

Storage Temperature

-20°C~80°C (-68°F~176°F)

Relative Humidity

10%~90% (non-condensing)

MB770 SPECIFICATIONS

CPU Supported

VIA Eden-V4 / VIA C7, 400MHz ~ 1.8GHz

Cache

128KB L2 cache, CPU integrated

Chipset

VIA CN700 / VT8237R+ Chipset:

North bridge: CN700 / 567-pin HSBGA

South bridge: VT8237R+, 539-pin PBGA

Front Side Bus

400MHz / 533MHz

BIOS

Award BIOS, ACPI supported

System Memory

One DDRII DIMM socket

Supports up to 1GB DDRII SDRAM

VGA

VIA CN700 integrated

128-bit Unicrhome Pro 3D/2D controller

Supports 16/32/64MB frame buffer size

DVI

ID393 card: VIA VT1632A (with DVI edge connector to be located

above the USB stack connector)

LVDS

Supported by VIA VT1631L for 18-bit or 24-bit dual channel

LAN

LAN1: Built-in VT8237R+ 10/100 LAN MAC + VT6103 PHY

LAN2: **Optional** RTL8110S-32 Gigabit LAN controller (*MB770F*

only)

Audio

VIA VT8237R+ built-in sound controller + AC97 Codec ALC655

5.1 channel (Line-out, Line-in, Mic)

LPC I/O

Winbond W83697HG

COM1, COM2 (RS-232), FDC 1.44MB (Slim), IrDA, Hardware

Monitor (2 thermal inputs, 6 voltage monitor inputs, 1 chassis

open detection, 2 fan headers)

Secondary I/O

Fintek F81216D for COM3 / COM4 (RS-232)

ORDERING INFORMATION:

MB770 - VIA Eden-V4, 400MHz, CN700 Mini-ITX motherboard w/ 10/100 LAN, VGA, LVDS, Mini PCI, SATA

MB770F - VIA Eden-V4 1GHz, CN700 Mini-ITX motherboard w/ 10/100 LAN, VGA, LVDS, Mini PCI, SATA, **Gigabit LAN, TV Out**

MB770-C15 - VIA C7, 1.5GHz, CN700 Mini-ITX motherboard w/ 10/100 LAN, VGA, LVDS, Mini PCI, SATA (MOQ required)

ID393* - DVI daughter card with VIA VT1632A (DVI edge connector to be located above the USB stack connector)

**Remarks: When ID393 is used, dual independent display (DVI + LVDS extension mode) is not supported. Mirror mode is supported (DVI and LVDS with same display); DVI / LVDS single display is supported.*

Remarks: Add (-R) after the model name for RoHS-compliant version when ordering.

OPTIONS:

USB2K-4: 30cm USB 2.0 cable with bracket

PW-34: Serial ATA power cable

FF2: 26-pin FDD flexible flat cable

PACKING LIST:

1 x I/O Shield

1 x [IB34 cable kit](#) (SATA cable, 44-pin IDE cable, 40-pin IDE cable, 3-COM port cable)

1 x Driver CD

1 x User's Manual

