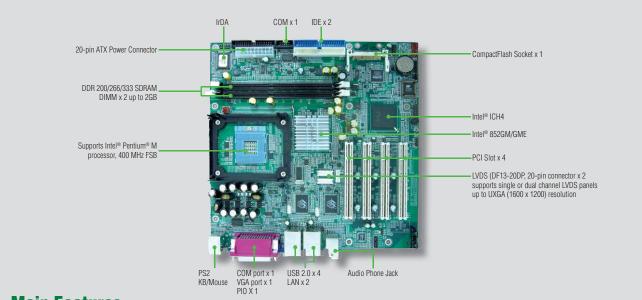
NEX 852VL2



Main Features

- Supports Intel® Pentium® M/Celeron® M Processors with 400 MHz FSB
- Supports LV/ULV Pentium® M/Celeron® M with 400 MHz FSB
- Intel® 852GM/GME Chipset

- Supports 2 x 184-pin DIMM DDR 200/266 SDRAM Memory Up to 2GB
- Supports Single and Dual Pixel LVDS Panel Displays, CRT and LVDS Dual Display
- 2 x Marvell Gigabit LAN

Product Overview

The NEX 852VL2 is an industrial micro ATX mother board supporting Intel® Pentium® M/Celeron® M or ULV Intel® Pentium® M/Celeron® M processors with 400 MHz FSB up to 2MB L2 cache.

Incorporate an Intel® 852GM/GME and ICH4 chipset, the NEX 852VL2 supports un-buffered non-ECC DDR 200/266 memory up to 2GB maximum, LVDS LCD and dual display. NEX 852VL2 also supports four PCI slots, two 40-pin IDE connectors, floppy port, and one CompactFlash socket. The versatile I/O port supports a parallel, an audio, two serial, six USB 2.0, and two Gigabit Ethernet LAN.

The industrial Micro ATX NEX 852VL2 series with superior Pentium® 4 processing power offer a compact solution for most of space-critical projects.

Specifications

CPU Support

- Socket 478uFCPGA/479uFCBGA
- Supports Intel® Pentium® M: 2 MB on Die L2 Cache, 400 MHz FSB, speed up to 2.0 GHz
- Supports Intel® Pentium® M: 1 MB on Die L2 Cache, 400 MHz FSB, speed up to 1.7 GHz
- Supports Intel® Celeron® M: 512 KB on Die L2 Cache, 400 MHz FSB, speed up to 1.5 GHz

Main Memory

Two 184-pin DDR DIMM support up to 2GB unbuffered non-ECC DDR SDRAM memory

Chipset

- Intel® 852GM
- Intel® ICH4

BIOS

- Award System BIOS
- ACPI Support
- · Advanced Power Management support
- 4 Mbit Flash ROM

On-board LAN

- Marvell Gigabit Ethernet LAN 8001 x 2 (one is optional)
- RJ45 x 2 with LED

Display

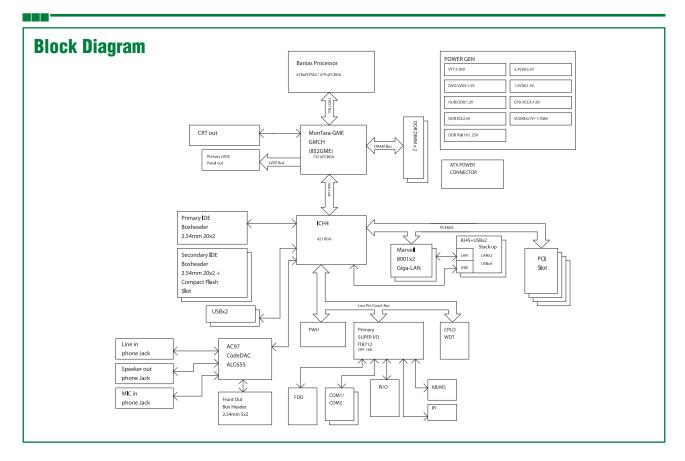
- Intel® 852GM integrated dynamic video shared memory, 64 MB max, adjustable by OS
- Resolution: Up to 1600 x 1200 for CRT or up to 1280 x 1024 for TFT
- D-sub 15-pin VGA port x 1
- Internal LVDS: Supports 18-bit single pixel or 18-bit dual pixel LVDS panels (Resolution support up to 1400 x 1050)
- Dual display: Simultaneous Scan-CRT + LVDS LCD, Dual View-CRT + LVDS LCD

I/O Interface

- Serial port x 2, with 2 x 16C550 UARTs. (9-pin D-sub connector x 1, 10-pin header x 1)
- USB 2.0: 6 ports (4 from combo connector with RJ45, 2 from 6-pin header)
- $\bullet \ \ \mathsf{HDD: 40-pin\ connector\ x\ 2,\ supports\ ultra\ \mathsf{ATA\ 33/66/100\ (Default:\ IDE\ channel\ 1)}$
- Optional CompactFlash socket: Internal CompactFlash socket x 1 (Default: IDE channel 2 master), Type-II CompactFlash cards supported
- Parallel: 25-pin D-sub connector, bi-directional, EPP/ECP support
- Floppy: 34-pin connector x 1
- PS/2 Keyboard/Mouse: Mini-DIN connector x 2
- AC' 97 audio: Phone jack x 1 (Line-in/Line-out/Mic-in)
- On-board CD-in and Aux-in
- GPIO: 4 in, 4 out
- IrDA: On-board 5-pin header for IrDA Tx Rx

Industrial ATX Motherboards





Watchdog Timer

• Programmable via GAL by Software from 1-127 sec. Or 1-127 min.

On-board RTC

On-chip RTC with external Lithium battery back up

ISA Support

- Through PCI to ISA Interface
- No support for ISA DMA

System Monitor

- Driver support for WIN2000, XP, XPe, Linux
- · Voltage, temperature and fan monitoring

Power Input

Standard ATX 20-pin power connector

Power Requirements

- Measured with Intel® Pentium® M 2.0 GHz
- + +12 V: 0.5 A
- + +5 V: 5.5 A
- + +3.3 V: 1 A
- +5 Vsb: 0.1 A

Dimensions

• Micro ATX 9.6" x 9.6"

Environment

- Board Level Operating Temperature: 0°C to 60°C
- Storage Temperature: -20°C to 80°C
- Relative Humidity: 10% to 90% non-condensing

Certifications

- · CE approval
- FCC Class A

Ordering Information

NEX 852VL2 (LF) (P/N: 10G00085200X0)
Micro ATX Socket 478 Intel® Pentium® M/Celeron® M processor,
Marvell GbE LAN x 2 and CF Socket