



Si14 - Embedded Solutions



Nihal intel Core 2 Duo mini ITX board

Overview

Nihal is a motherboard for Intel Core-class CPUs based on Intel chipset. Design, production and support are supplied. Nihal support and spare part availability for 5 years since the date of commercialization.

Specifications

Processor	Intel® Core™ Duo/Core™ 2 Duo/Core™ Solo up to 2.33GHz mPGA478 and mBGA479
Chipset	Intel® 945GME and Intel® ICH7R Embedded Chipset Front Side Bus 533 / 667 MHz
USB	6x USB 2.0 (2x internal and 4x external)
Bus	Bus 1x PCI connector, 1x mini PCI, 1x PCI Express 1X, 1x PCI Express 16X
Serial Port	2x RS232C serial ports with FIFO (internal) 1x RS485 half duplex (internal) 1x IRDA connector (internal) USB
DRAM	2x DDR2 socket (200pins SODIMM) up to 3GByte
Ethernet	2x 10/100/1000 Mbps Ethernet Controller
Video	1x VGA (external), 1x LVDS, 1x S-Video TV Out (internal)
Mass Storage	2x Serial ATA150/300, 1x ATA100 (2.54 mm connector) 1x Compact Flash (internal, bootable)
Audio	1x Amplified Stereo audio out (2W) Line-in, Line-out and Mic-in (external)
Hardware Monitoring	1x RTC, 1x WatchDog Timer, On board lithium battery
GPIO	8x channel GPIO, Linux driver
Power supply	ATX Power Connector, Supports S0, S3, S4, S5 power states
Mouse and Keyboard	Standard PS/2 mouse and keyboard (internal)

Physical Features	Fanless heatsink 0 to +60°C operational temperature range -10 to +85°C storage temperature range RoHS and Lead-free production mini-ITX, 170 mm x 170 mm (6.7" x 6.7")
OS Support :	Nihal supports all major x86 operating systems (DOS, Microsoft Windows including Vista, Linux and its major distributions such as Ubuntu, Fedora, Debian, OpenSUSE, Gentoo and derivatives)