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ECN-381B

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Single Board Computing

Addon Card

Intelligent Industrial Solution Embedded System

Industrial Panel Appliance

Power Solution

Intel ® GM45 High I Industrial Chassis POS Solution

Video Wall Controller

Medical Solution by PACSmate®

Digital Signage

AIDC Solution

Industrial Ethernet Communication

Support for High Def decode in H/W

Integrated DisplayPort™ & HDMI/HDCP

Smaller FormFactor Chipsets and CPUs

Deep Power Down Technology (w/ C6 state)

OEM/ODM Service

Products Support My IEI Where to Buy Full Size CPU Card Half Size CPU Card Backplane

Industrial Motherboard Embedded Board

ETX / COM EXPRESS / Q7 RISC Single Board Computers

Additional USB & SATA ports (no PATA)

Integrated TPM and Packet Filtering

Thermal compatibility with Santa Rosa

Peripherals



Date: March 16, 2010



As the latest 3-chip mobile solution, Intel® GM45 has substantial improvement on graphic and media related features over 945GME including HD display and Blu-ray support as well as MPEG-2 decoding acceleration. Its High-Definition Multimedia Interface(HDMI) enables 1080p HD digital output to large size panel, ideal for signage application.

667MHz **FSB** 667/800/1066MHz DDR3 800/1066MHz DDR2 400/533/667MHz Memory support Graphic engine GMA4500MHD GMA950 Render clock 533-MHz core render clock 250-MHz core render clock DP/HDMI Available, with HDCP support N/A High performance MPEG-2 decoding
 WMV9 (VC-1) and H.264 (AVC) support
 Hardware acceleration for MPEG2 VLD/iDCT
 Blu-ray* support @ 40 Mb/s Multimedia features N/A **DirectX Version** DirectX 10 DirectX 9.1

△T0P



The ECN-381B has a passive cooling architecture design. The heat pipes and extruded aluminum fins transfer heat from CPU and chipset instantly to the system aluminum enclosure by natural convection. With Intel® mobile Core™ 2 Duo 2.26GHz, the ECN-381B is verified its reliability and stability under 40°C high tempeature1, and support up to 31W CPU TDP fan-less operation.

Intel® Core™ 2 Duo

Intel® mobile Core™2 Duo 2.26GHz, Processor P8400 3MB L2 cache TDP 25W

Intel® Celeron® M

Intel® Celeron® M 2.0 GHz, Processor 575 1MB L2 cache TDP 31W

1 High temperature operation test is performed with ambient air speed 0.5 meter / sec, compliant to IEC-68-2-2 standard.

△T0P

Full HD Dual Display

The ECN-381B has VGA and HDMI dual display interfaces which support high resolution and independent screen with audio output. Applications like fine art demonstration, high fashion show window, large screen digital signage, all need high definition graphic performance to show the true beauty of product and content. The ECN-381B is more than competent to fulfill these requirement.



About HDMI

HDMI is a compact audio/video interface for transmitting uncompressed digital data. It represents a digital alternative to consumer analog standards such as Radio Frequency (RF) coaxial cable, composite video, S-Video, ŠCART, component video, D-Terminal, and VGA. HDMI connects digital audio/video sources such as set-top boxes, Blu-ray Disc players, personal computers, video game consoles, and AV receivers to compatible digital audio devices, computer monitors, and digital televisions.

Storage Support

The ECN-381B supports three kinds of storage devices including 2.5" Serial ATA hard drive, CompactFlash and Serial ATA Disk-on-Module. Using the ECN-381B as signage player, you can install operating system in CF card or SATA DOM, while storing multimedia content in the hard drive. This can protect OS image damage from frequent read/write during content playback and update.







SATA DOM

I. RS-232

J. RS-232

K. RS-232 J. TB DC in

M. Line out

N. Mic in

O. Reset

2.5" SATA hard drive CompactFlash II

△T0P

I/O Interface



+ Industrial high speed camera

- Industrial inspection Machine vision
 - Healthcare and medical
 - · Security and traffic

A. IEEE 1364a (6-pin)

B. VGA C. HDMI D. GbF

E. GbE

F. Dual USB G. Dual USB H. DC in

+ HD camcorder





 Broadcasting business Professional video editing

△T0P

Specifications

NANO-GM45A2

Intel® Core 2 Duo 2.26GHz 3MB L2 cache, processor P8400 Processor Intel® Celeron™ M 2.0 GHz 1MB L2 cache, processor 575

Intel® GM45 with ICH9M Chipset

Pre-installed 204-pin 1GB DDR3 SDRAM SO-DIMM **System Memory**

Ethernet Dual Realtek RTL8111CP GbE

HDMI, VGA Display USB 4 x USB 2.0 **Serial Port** 3 x RS-232

1 x mic in, 1 x speaker out Audio

Storage 1 x CompactFlash Type II slot, 1 x 2.5" SATA HDD, SATA DOM compatible

Expansions 1 x PCIe mini card slot, reserved for WiFi

Power Input 12VDC in, with 60W power adaptor (with EUP and PSE certificates) **Power Consumption** 48 W (Intel® Core 2 Duo 2.26GHz P8400 with 1GB DDR3)

Chassis Construction Aluminum Alloy

0°C ~ 40°C (with HDD) with air flow* **Operating Temperature**

0°C ~ 45°C (SATA DOM/CompactFlash) with air flow*

Operating Shock Half-sine wave shock 3G; 11ms; 3 shocks per axis

Operating Vibration MIL-STD-810F 514.5C-2

Weight (Net/Gross) 2.6 kg / 3.9 kg

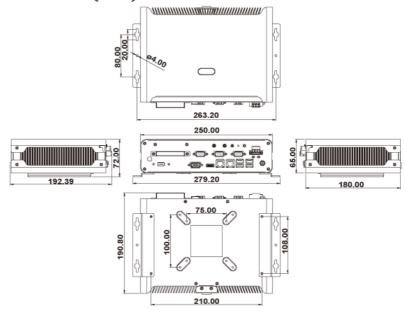
Dimensions (DxWxH) 252 mm(W) x 186 mm(D) x 64 mm (H)

Mounting Desktop, wall mount, VESA mount

EMC/Safety CE, FCC class A, CCC * Ambient air speed pre IEC-68-2-2 standard.

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Dimensions (mm)



Ordering Information

Part No.

Description

ECN-381B-R10/CM575/1GB

Fanless embedded system with Intel® Celeron $^{\text{TM}}$ M 575 2.0 GHz 1MB L2 cache, GM45 chipset , with 1GB DDR3 memory, 12VDC, 60W power adaptor with EUP and PSE certificates, Reflex Blue C+8403C, RoHS

ECN-381B-R10/P8400/1GB

Fanless embedded system with Intel® Core 2 Duo P8400 2.26 GHz 3MB L2 cache, GM45 chipset, with 1GB DDR3 memory, 12VDC, 60W power adaptor with EUP and PSE certificates, Reflex Blue C+8403C, RoHS

ECN-381BW-R10/CM575/1GB

Fanless embedded system, Intel® Celeron™ M 575 2.0 GHz 1MB L2 cache, GM45 chipset, built-in 802.11b/g wireless, with 1GB DDR3 memory, 12VDC, 60W power adaptor with EUP and PSE certificates, Reflex Blue C+8403C, RoHS

ECN-381BW-R10/P8400/1GB

Fanless embedded system, Intel® Core 2 Duo P8400 2.26 GHz 3MB L2 cache and GM45 chipset, built-in 802.11b/g wireless, with 1GB DDR3 memory, 12VDC, 60W power adaptor with EUP and PSE certificates, Reflex Blue C+8403C, RoHS

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Packing List

 1 x QIG
 1 x screw set

 2 x wall mount bracket
 1 x driver CD

 1 x SATA hard drive cable
 1 x power cord

1 x 2dbi wireless antenna (for wireless model only) 1 x 12VDC 60W power adaptor (with EUP and PSE certificates)

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