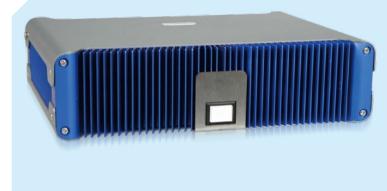
# ECN-381B

Intel® Socket P Core 2 Duo Fanless Multimedia Box



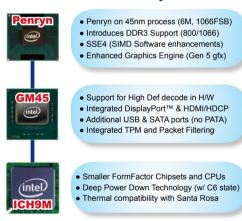
#### Features

- ◆ Intel® 45nm mobile Core™ 2 Duo fanless design
- ◆ Intel® GM45 rich media features with VGA+HDMI dual display
- ◆ 1080i/p Full HD by HDMI with HDCP support
- ◆ High quality media MPEG-2 decoding, WMV9 (VC-1), H.264 (AVC), DirectX 10
- ♦ IEI One Key Recovery solution allows you to create rapid OS backup and recovery



#### GM45 Leadership Performance

#### Montevina Platform – Key Features



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.

	GM45	945GME
FSB	667/800/1066MHz	667MHz
Memory support	DDR3 800/1066MHz	DDR2 400/533/667MHz
Graphic engine	GMA4500MHD	GMA950
Render clock	533-MHz core render clock	250-MHz core render clock
DP/HDMI	Available, with HDCP support	N/A
Multimedia features 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		N/A
DirectX Version	DirectX 10	DirectX 9.1

## Core<sup>™</sup>2 Duo Fanless

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





Industria Computing Solution









with ambient air speed of 0.5 meter/sec, compliant with IEC-68-2-2 standard.

ECN-381B-2012-V10

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I. RS-232

J. RS-232

K. RS-232

L. TB DC in

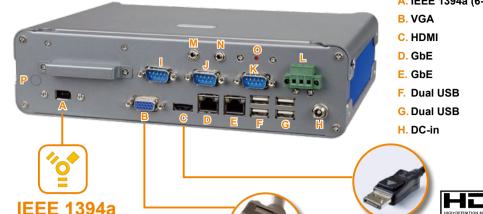
M. Line-out

N. Mic-in

O. Reset

P. Antenna (option)

#### I/O Interface -



- Industrial high speed camera
- Industrial inspection
- Machine vision
- · Healthcare and medical
- · Security and traffic
- + HD camcorder
- Broadcasting business
- · Professional video editing







### Storage Support

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



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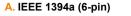
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ower Supply/ Peripherals



2.5" SATA hard drive/SSD

CompactFlash® II





#### Full HD Dual Display \_\_\_\_

The latest 3-chip mobile solution, the Intel® GM45, has substantially improved graphics and medias including an HD display, Blu-ray

support as well as MPEG-2 decoding acceleration. Its High-Definition Multimedia Interface (HDMI) support provides 1080p HD digital output perfect for large sized panels and signage applications.

The ECN-381B has VGA and HDMI dual display interfaces for high resolution, and independent screen with audio output. Possible applications include: fine art demonstrations, high fashion displays, large screen digital signage, etc. Any application that requires high definition graphics performance in order to show the true beauty of products and content. The ECN-381B is an excellent choice to fulfill high-end digital signage needs.







## 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, SCART, component video, D-Terminal, and VGA. HDMI connects digital audio/video sources such as settop boxes, Blu-ray Disc players, personal computers, video game consoles, and AV receivers to compatible digital audio devices, computer monitors, and digital televisions

### **Ordering Information**

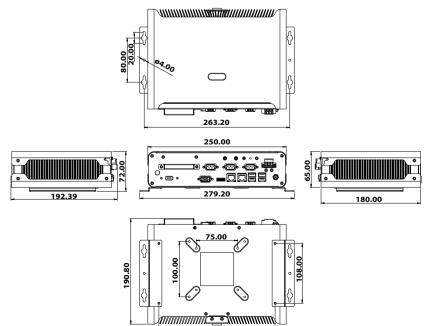
	Part No.	Description	
	ECN-381B-R10/CM575/1GB	Fanless embedded system with Intel Celeron M 575 2.0 GHz 1MB L2 cache, GM45 chipset , with 1GB DDR3 memory, 12VDC, 60W power adaptor with ERP and PSE certificates, Reflex Blue C+8403C, RoHS	
	ECN-381B-R10/P8400/1GB	Fanless embedded system with Intel Core 2 Duo P8400 2.26 GHz 3MB L2 cache, GM45 chipset, with 1GB DDR3 memory, 12VDC, 60W power adaptor with ERP 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 ERP and PSE certificates, Reflex Blue C+8403C, RoHS	
I	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 ERP and PSE certificates, Reflex Blue C+8403C, RoHS	

Pane Solutions Introduction

#### **Specifications**

Model Name		ECN-381B
	Color	Cool Gray+Blue
Chassis	Dimensions	252 x 186 x 64mm
	Chassis Construction	Aluminum alloy with heavy duty metal
	Motherboard Model	NANO-GM45A2
	M/B Size	EPIC (165mm x 115mm)
Motherboard	Processor CPU	Intel® Core™ Duo 2.26GHz, 3MB L2 cache, processor P8400 Intel® Celeron™ M 2.0GHz 1MB L2 cache, processor 575
	Chipset	Intel® GM45 + ICH9M
	System Memory	1 GB DDR3 204-pin SODIMM memory pre-installed
Storage	Hard Drive	1 x 2.5" SATA HDD Space
Storage	CompactFlash®	1
	USB 2.0	4
	Ethernet	2 x Realtek 8111CP PCIe GbE
	RS-232	3
	Display	1 x VGA +1 x HDMI
System Function	Resolution	2048 x 1536 @ 75 Hz (Analog) 1080P (HDMI)
	Audio	1 x Mic-in, 1 x Speaker out
	Other	1 x IEEE-1394a
	Wireless	1 x 802.11 b/g/n
	Expansions	1 x PCIe Mini card slot (reserved for Wi-Fi)
Power	Power Input	12V DC in
Fower	Power Consumption	12V@3.24A (Intel® Core™2 Duo P8400 2.53G, DDR3 2GB)
	Mounting	Desktop, VESA mount, wall mount
	Operating Temperature	-10°C ~ 45°C with CompactFlash®/SSD ; -10°C ~ 40°C with 2.5" HDD
Reliability	Operating Shock	Half-sine wave 3G; 11ms 3 shocks per axis
	Operating Vibration	Meet MIL-STD-810F 514.5C-1; MIL-STD-810F 514.5C-2
	Weight (Net/Gross)	2.6kg/3.9kg

#### Dimensions (unit: mm)



210.00

## **Packing List**

- 1 x QIG
- 2 x wall mount bracket
- 1 x SATA hard drive cable
- 1 x 2dbi wireless antenna (for wireless model only)
- 1 x screw set
- 1 x driver CD
- 1 x power cord
- 1 x 12VDC 60W power adaptor (with ERP and PSE certificates)
- 1 x One Key Recovery CD







Power Supply/ Peripherals

