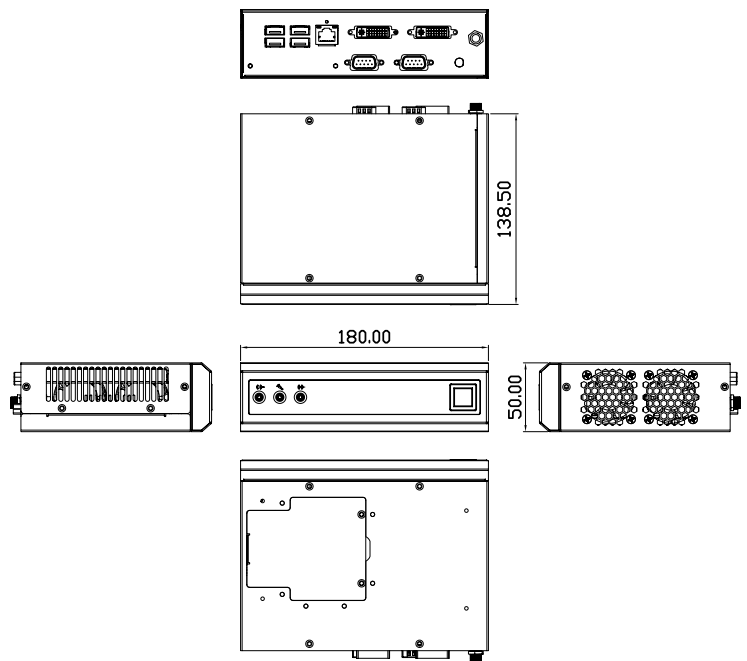# ECN-581A-QM57

Dual DVI Display Multimedia Box

- ♦ Supports Socket G Intel® 32 nm mobile processor Intel® Core™ i5-520M
- ♦ Dual DVI independent display support
- ♦ DDR3 800/1066 MHz SDRAM supported up to 4GB
- ♦ Intel® GbE LAN with Intel® AMT 6.0 supported
- ♦ 12V DC power input
- ♦ Optional wireless by PCIe mini card

One Key Recovery
IEi symantec.

Specifications

SBC	NANO-QM57A
Processor	Intel® Core™ i5-520M
Chipset	Intel® mobile QM57
System Memory	Pre-install 1 x 2 GB DDR3 SDRAM SO-DIMM (max: 4GB)
Ethernet	One Intel ®82577 PCIe LAN controller (with Intel® AMT 6.0)
Display	1 x DVI-D (1920x1200) 1 x DVI-I (supports VGA by DVI to VGA adaptor)
USB	4 x USB 2.0
Serial Port	2 x RS-232
Audio	1 x mic in, 1 x line out, 1 x line in (front panel)
Storage	Supports 1 x 2.5" SATA HDD
Expansions	1 x PCIe mini card slot, reserved for WiFi
Power Input	12 V DC input 60W power adaptor with ERP and PSE certificates
Operating Temperature	-20°C ~ 50°C (with HDD) with air flow*
Operating shock	Half-sine wave shock 3 G; 11ms; 3 shocks per axis (SSD)
Operating Vibration	MIL-STD-810F 514.5C-2 (SSD)
Weight (Net/Gross)	1.1 kg / 2 kg
Dimensions (DxWxH)	180 mm (W) x 138 mm (D) x 50 mm (H)
Mounting	Desktop, wall mount, VESA mount
EMC/Safety	CE, FCC class A

Dimensions (unit: mm)

138.50
180.00
50.00

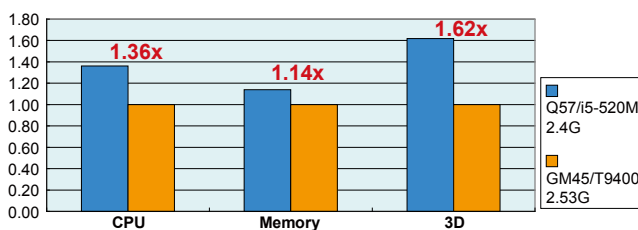## About QM57

2-chipset solution

Intel® 5 Series Chipset QM57, the new generation 2-chip mobile chipset, has substantial improvement on graphics and flexible display, and on CPU performance. The Intel® QM57 chipset is the advanced version of Intel® HM55, and supports Intel® AMT 6.0 (Intel® Active Management Technology 6.0) with the Intel® Core™ i5-520M processor.
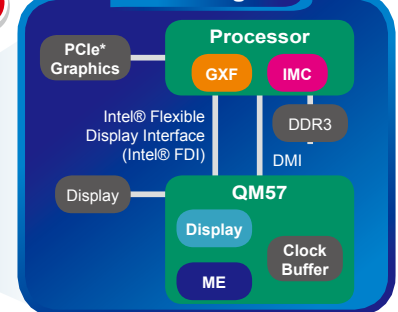
New Generation
2-Chip Solution

intel

Block Diagram
PCIe* Graphics
Processor
GXF
IMC
Intel® Flexible Display Interface (Intel® FDI)
DDR3
DMI
Display
QM57
Display
ME
Clock Buffer

Chart values: 1.36x (CPU), 1.14x (Memory), 1.62x (3D)
Legend: Q57/i5-520M 2.4G; GM45/T9400 2.53G

Performance

Intel® Core™ i5 mobile
CPU performance 1.36x, Graphic performance 1.62x
faster compare with GM45/T9400

Dual Display for Digital Signage

The ECN-581A Series has a high performance graphics engine with full AVC, VC-1 and MPEG2 decoding acceleration as well as 1080p HD digital output for large-sized panels which make it an ideal system for digital signage. The ECN-581A Series dual display feature is made through the DVI interface. The DVI-D connector supports up to 1920x1200 high resolution and the DVI-I connector provides VGA output via DVI to VGA adaptor. One 2.5" SATA hard drive can be installed for data storage in its compact-sized chassis which is only 180 mm in width, 138 mm in depth and 50 mm in height.

2.5" SATA hard drive

ECN-581A-QM57
Dual DVI Display Multimedia Box

DVI-D
Digital signal 1920 x 1200
DVI Cable

DVI-I
Analog signal 2048 x 1536
VGA Cable

DVI to VGA Adaptor
P/N: 33Z00-000031-RS

Intel® AMT 6.0 (IKVM)

The ECN-581A-QM57 is integrated with the Intel® QM57 Express Chipset that supports Intel® Active Management Technology for remote management. The Intel® AMT allows IT staff to better discover and protect networked computing assets. Benefits include better asset management, fewer desk side visits and downtime reduction.

Local Administrator

Remote Console

Keyboard/Video/Mouse

Provides PC diagnosis, repair and maintenance with graphical support through redirection of keyboard/video/mouse to IT

Packing List

1 x QIG

1 x Screw set

2 x Wall mount bracket

1 x Driver CD

1 x 12VDC 60W power adaptor (with ErP and PSE certificates)

1 x Power cord

1 x 2dbi wireless antenna (for wireless model only)

Ordering Information

Part No.	Description
ECN-581A-R10/ QM57-I5/2GB	Embedded system with NANO-QM57A, Intel® Core i5-520M Processor 3M Cache 2.40 GHz, with dual DVI display support iAMT6.0, with 2GB DDR3 memory, 12VDC, 60W power adaptor with ERP and PSE certificates, Reflex Blue C + 8403C, RoHS
ECN-581AW-R10/ QM57-I5/2GB	Embedded system with NANO-QM57A, Intel® Core i5-520M Processor 3M Cache,2.40 GHz, with dual DVI display support iAMT6.0, built-in 802.11b/g wireless, with 2GB DDR3 memory, 12VDC, 60W power adaptor with ERP and PSE certificates, Reflex Blue C + 8403C, RoHS