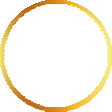
* ***Intel® Core™ i5/Celeron® CPU***
* ***Triple Video Outputs***

**ECN-380-QM87**

# *Specifications*

***Features***

## Intel® Core™ i5/Celeron® CPU



» Intel® Core™ i5-4400E 2.7 GHz/Celeron® 2000E 2.2 GHz

## Triple video outputs

» 2 x HDMI + VGA

## Two 2.5'' SATA 6Gb/s HDD/SSD drive bays



Fanless



Dual LAN



Dual HDD



Display

Triple

|  |  |  |
| --- | --- | --- |
| **Model Name** | | **ECN-380-QM87** |
| **Chassis** | **Color** | Silver |
| **Dimensions (WxDxH) (mm)** | 265 x 134 x 56.7 |
| **System Fan** | Fanless |
| **Chassis Construction** | Aluminum alloy with heavy duty metal |
| **Motherboard** | **Motherboard Model** | NANO-QM871-i1 |
| **SBC Size (mm)** | EPIC, 165 x 115 |
| **CPU** | Intel® mobile Core™ i5-4400E with AMT 9.0 support (up to 2.7GHz, dual-core, 3MB cache, TDP=37W) Intel® mobile Celeron® 2000E (up to 2.2GHz, dual-core, 2MB cache, TDP=37W) |
| **Chipset** | Intel® QM87 |
| **System Memory** | One 204-pin 4GB DDR3 SO-DIMM pre-installed (system max: 8GB) |
| **IPMI** | **iRIS Solution** | 1 x iRIS-1010 (optional) |
| **Storage** | **Hard Drive** | 2 x 2.5'' SATA 6Gb/s HDD/SSD drive bay |
| **I/O Interfaces** | **USB 3.0** | 2 |
| **USB 2.0** | 4 |
| **Ethernet** | 2 x RJ-45  LAN1: Intel® I217LM PHY with Intel® AMT 9.0 support LAN2: Intel® I210-AT PCIe controller |
| **COM Port** | 2 x RS-232 |
| **Display** | 2 x HDMI, 1 x VGA |
| **Resolution** | VGA: Up to 1920 x 1200@60Hz HDMI: Up to 2500 x 1600@60Hz |
| **Audio** | 1 x Line-out, 1 x Mic-in |
| **Wireless** | 1 x 802.11b/g/n (optional) |
| **Expansions** | **PCIe Mini** | 1 x Full-size PCIe Mini (supports mSATA, SATA 6Gb/s signal only)\* 1 x Half-size PCIe Mini (only for iRIS-1010) |
| **Power** | **Power Input** | DC jack: 12 V DC  3-pin terminal: 9 V~36 V DC |
| **Power Consumption** | 12 [V@4.6](mailto:V@4.6) A  (Intel® mobile Core™ i5-4400E with 4GB 1333MHz DDR3 memory) |
| **Reliability** | **Mounting** | Wall mount, VESA 100 |
| **Operating Temperature** | -20°C ~60°C with air flow (SSD), 10% ~ 95%, non-condensing |
| **Storage Temperature** | -30°C ~70°C with air flow (SSD), 10% ~ 95%,non-condensing |
| **Operating Shock** | Half-sine wave shock 5G, 11ms, 3 shocks per axis |
| **Operating Vibration** | MIL-STD-810F 514.5C-2 (with SSD) |
| **Weight (Net/Gross)** | 2.4 kg/4.2 kg |

\* ECN-380-QM87i-WD-QGW without Full-size PCIe Mini Card slot expansion

# *Removable 2.5’’ SATA HDD/SSD Bay Triple Display Outputs*



Display

Triple

The ECN-380 series is equipped with two 2.5" SATA HDD bays.



Dual HDD

One of the HDD bays is removable for easy installation.

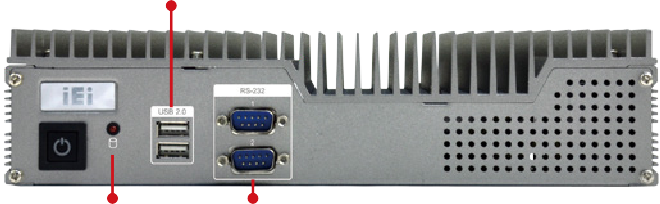


The ECN-380-QM87 contains two HDMI and one VGA. All of the display outputs support high resolution video, which can be applied widely in multi-monitor applications.



# *Fully Integrated I/O*

**●ECN-380-QM87 Front I/O ●ECN-380-QM87 Rear I/O**

2 x USB 2.0 2 x USB 3.0 2 x LAN Audio

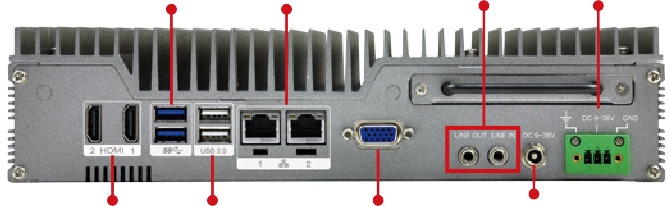
Power 1 (Terminal Block)

HDD LED

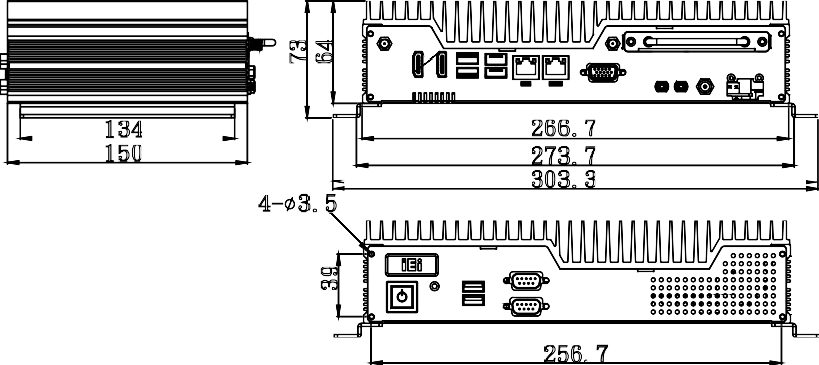
2 x RS-232

2 x HDMI

2 x USB 2.0 VGA Power 2

(DC Jack)

***Dimensions (Unit: mm)***



266.7

273.7

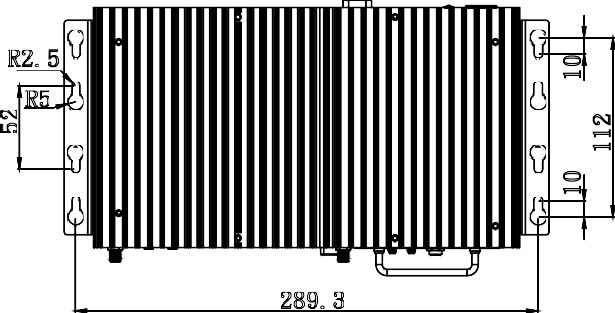
303.3

4- 3.5

256.7

150

134



R2.5

289.3

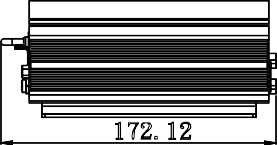
R5

52

10

10

112



172.12

# *Ordering Information*

73

64

39

|  |  |
| --- | --- |
| **Part No.** | **Description** |
| **ECN-380-QM87i-i5/4G-R11** | Fanless embedded system with Intel® Core™ i5-4400E 2.7 GHz CPU, TDP 37W, 2 x HDMI, 1 x VGA, 2 x 2.5'' SATA HDD bay, 4GB memory  pre-installed, iRIS-1010, 12 V DC, RoHS |
| **ECN-380-QM87i-C/4G-R11** | Fanless embedded system with Intel® Celeron® 2000E 2.2 GHz CPU, TDP 37W, 2 x HDMI, 1 x VGA, 2 x 2.5'' SATA HDD bay, 4GB memory  pre-installed, iRIS-1010, 12 V DC, RoHS |
| **ECN-380-QM87i-i5/WD/4G-R11** | Fanless embedded system with Intel® Core™ i5-4400E 2.7 GHz CPU, TDP 37W, 2 x HDMI, 1 x VGA, 2 x 2.5'' SATA HDD bay, 4GB memory  pre-installed, iRIS-1010, 9 V~36V DC, RoHS |
| **ECN-380-QM87i-C/WD/4G-R11** | Fanless embedded system with Intel® Celeron® 2000E 2.2 GHz CPU, TDP 37W, 2 x HDMI, 1 x VGA, 2 x 2.5'' SATA HDD bay, 4GB memory  pre-installed, iRIS-1010, 9 V~36 V DC, RoHS |
| **ECN-380-QM87i-WD-QGW-R10** | Fanless embedded system with Intel® Core™ i5-4400E 2.7 GHz, TDP 37W, 2 x HDMI, 1 x VGA, 2 x 2.5’’ SATA HDD bay, 8GB memory pre-installed, iRIS-1010, with QTS-gateway, 9 V~36V DC, RoHS |

***Options***

|  |  |
| --- | --- |
| **Part No.** | **Description** |
| **iRIS-1010-R10** | IPMI 2.0 adapter card with AST1010 BMC chip (W/O KVM over IP function) for PCIe Mini socket interface |
| **ECN380VK-100-R10** | VESA 100 mount kit for ECN-380 |
| **ECN-380-QM87i-WES7E-R10** | OS image with Windows Embedded Standard 7 E for ECN-380-QM87i Series, WES7E license label, with DVD ROM |

***Packing List***

|  |  |  |
| --- | --- | --- |
| 1 x Power cord | 1 x Chassis screw set | 1 x Utility CD |
| 1 x Power adapter (with PSE/ErP certified) | 1 x Wall mount bracket | 1 x One Key Recovery CD |