

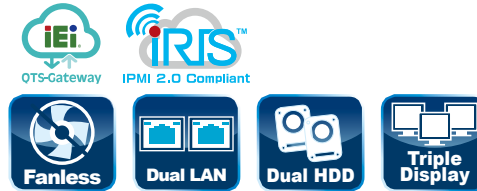
# ECN-380-QM87

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



## 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



## Specifications

| 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)<br>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<br>LAN1: Intel® I217LM PHY with Intel® AMT 9.0 support<br>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<br>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)*<br>1 x Half-size PCIe Mini (only for iRIS-1010)   |
|                |                         |   |
| Power          | Power Input             | DC jack: 12 V DC<br>3-pin terminal: 9 V~36 V DC   |
|                | Power Consumption       | 12 V@4.6 A<br>(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

The ECN-380 series is equipped with two 2.5" SATA HDD bays. One of the HDD bays is removable for easy installation.



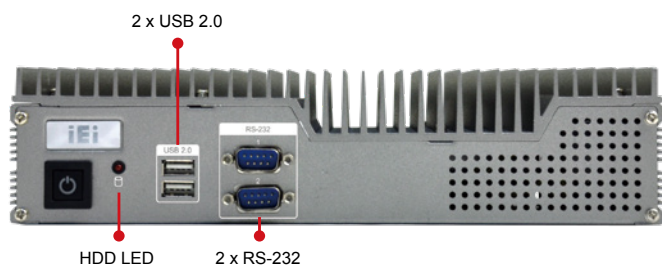
## Triple Display Outputs

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.

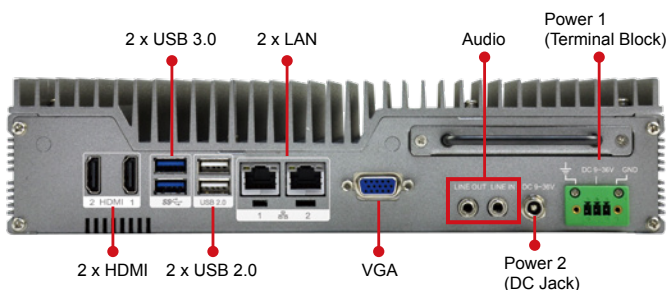


Fully Integrated I/O

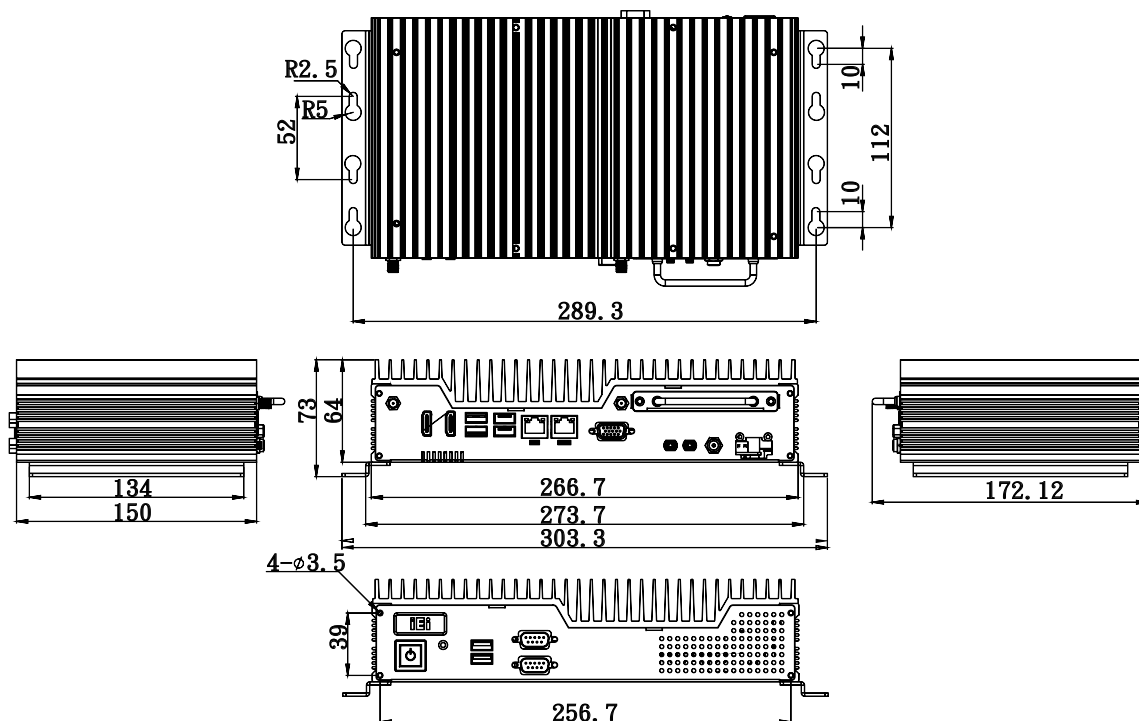
●ECN-380-QM87 Front I/O



●ECN-380-QM87 Rear I/O



Dimensions (Unit: mm)



Ordering Information

| 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 |