



## HM-5000 Series

### Robust Din-rail Fanless System with Intel® Whiskey Lake Mobile U i5-8265U processor, support PoE and GPIO isolation

1. Intel Gen. 8th/10th Core i U-Series CPU
2. 2\* SO-DIMM DDR4 2400/2133 Dram (Max 64GB)
3. 2\* RS232/422/485, 2\* GbE, 4\* PoE GbE
4. 16-bit GPIO 5KV optical isolation
5. Support 4G/5G (M.2 B Key + Nano SIM Holder)  
Module, Wi-Fi6 Module (M.2 E Key)
6. 12~36V DC-in with OCP/OVP
7. Remote Power Switch Design



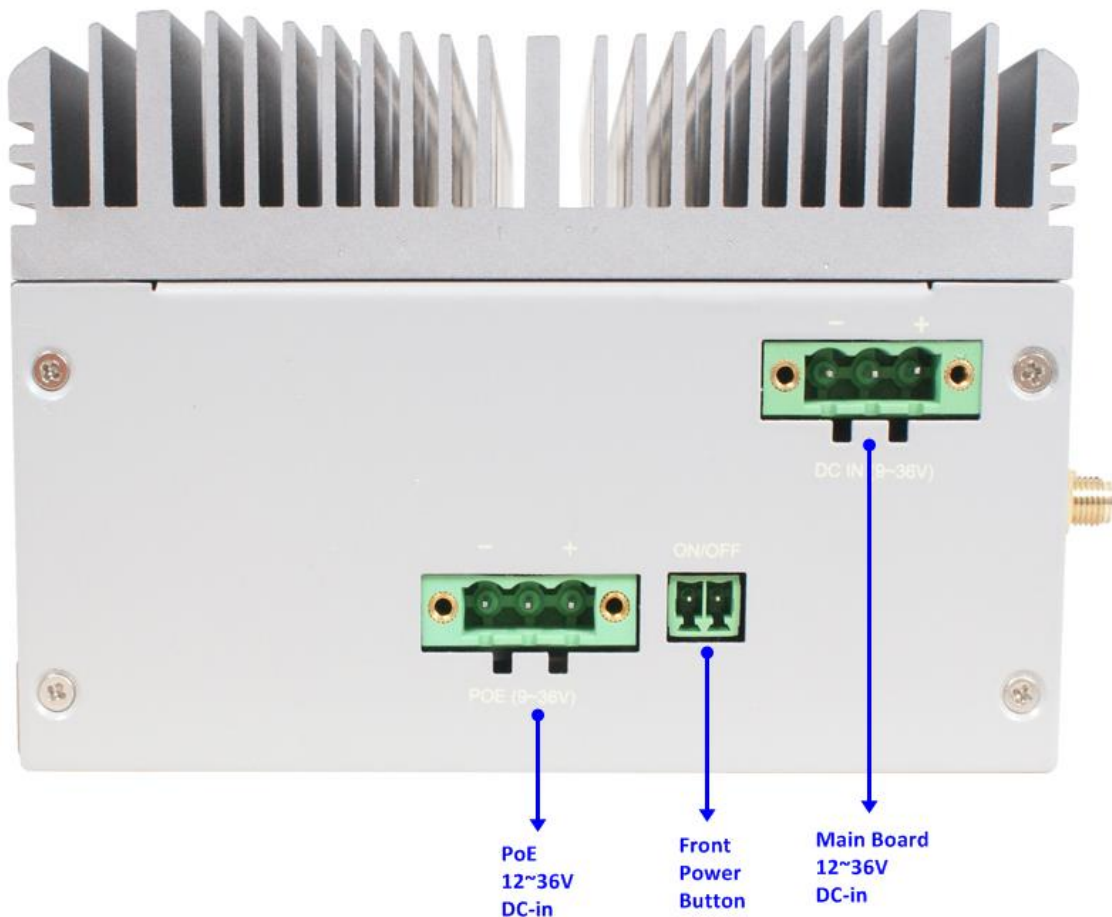
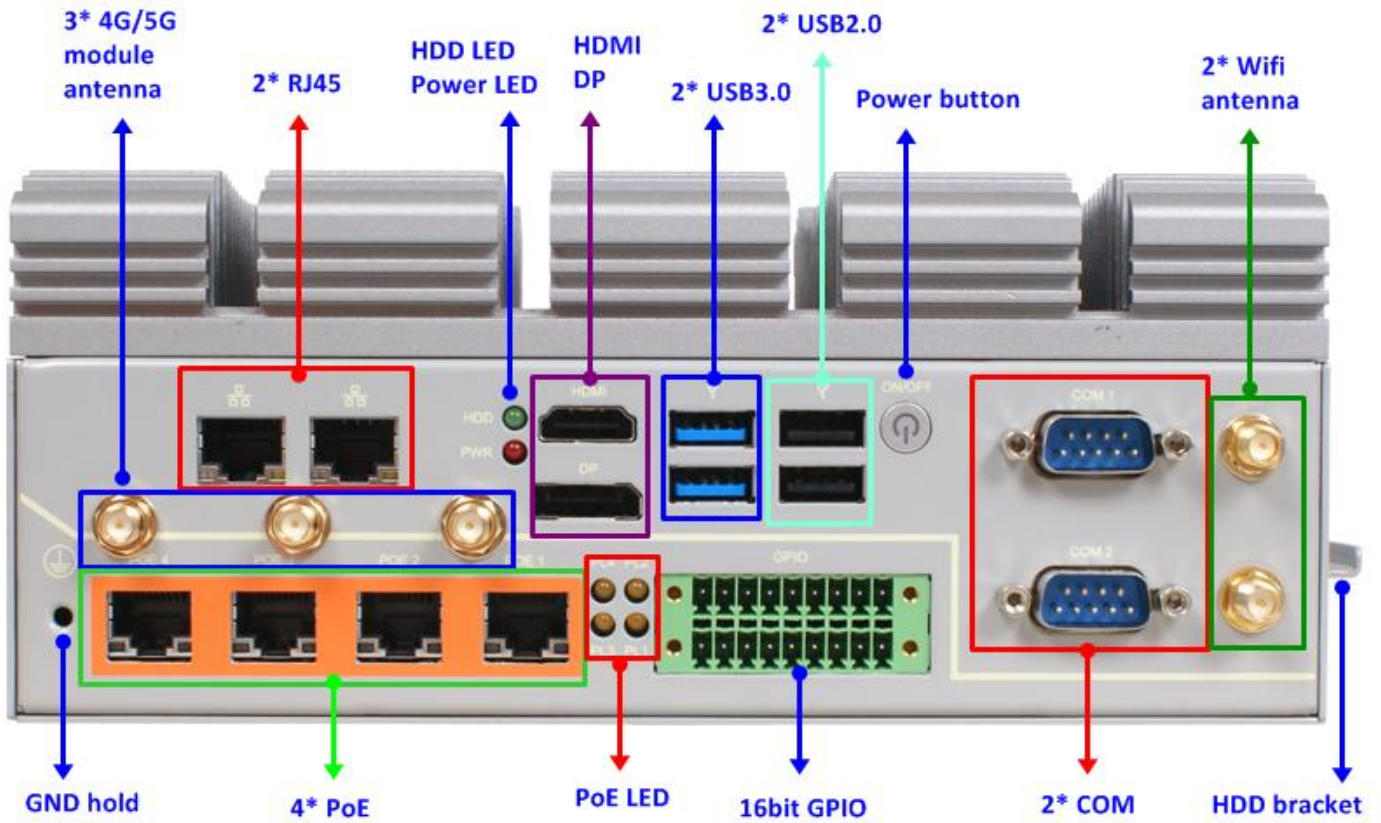
### Product Introduction

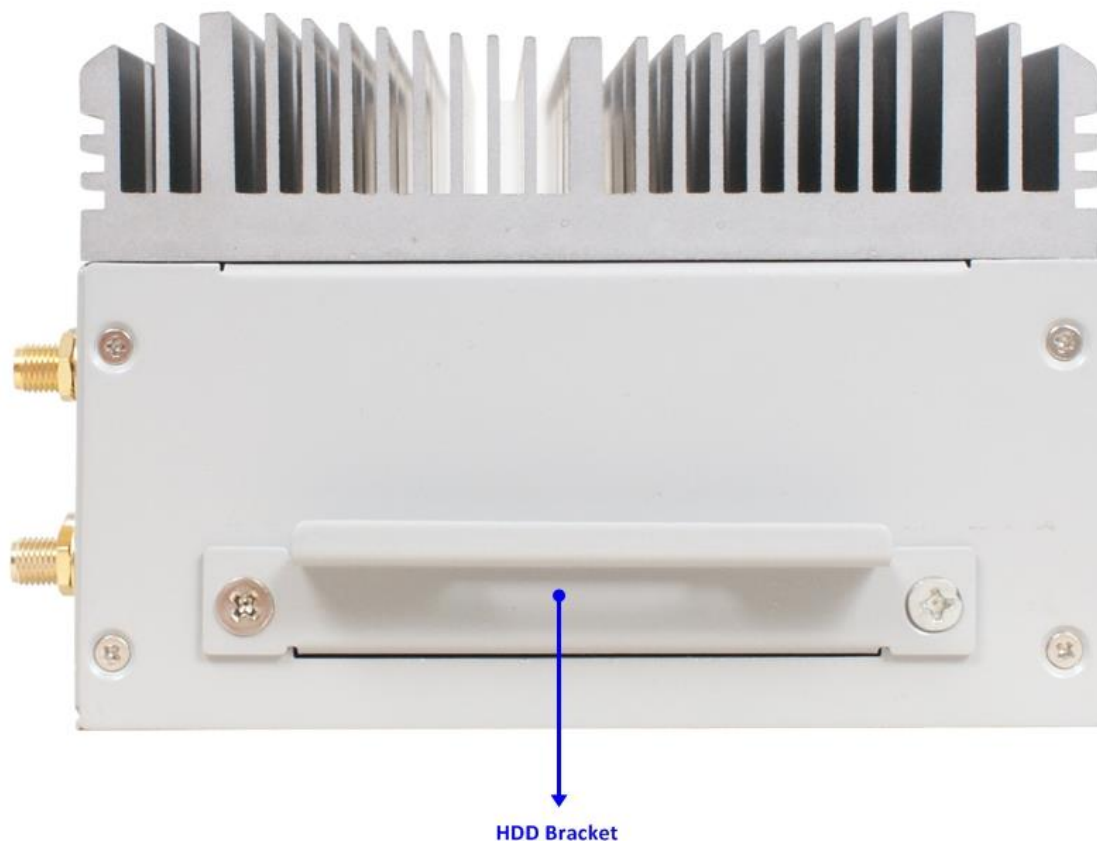
The HM-5000 series Fanless system features the Intel Gen. 8th/10th Core I Processor power, with rich IO and excellent heat dissipation solution. HM-5000 series supports 12~36V power, Over-voltage & Over-current protection, and remote power switch by terminal block connection.

The superior HM-5000 features full rugged industrial designs: 5KV 16-bit GPIO with optical isolation; 4\* PoE GbE compliance with IEEE802.3af/at protocol; and 2\* additional Intel GbE.

HM-5000 supports rich internal IO options: Dual Channel SODIMM, M.2 M Key with support NVMe SSD, M.2 E Key for Wi-Fi6 Module installation, and M.2 B Key for 4G/5G module connection in a compact size.

# External I/O





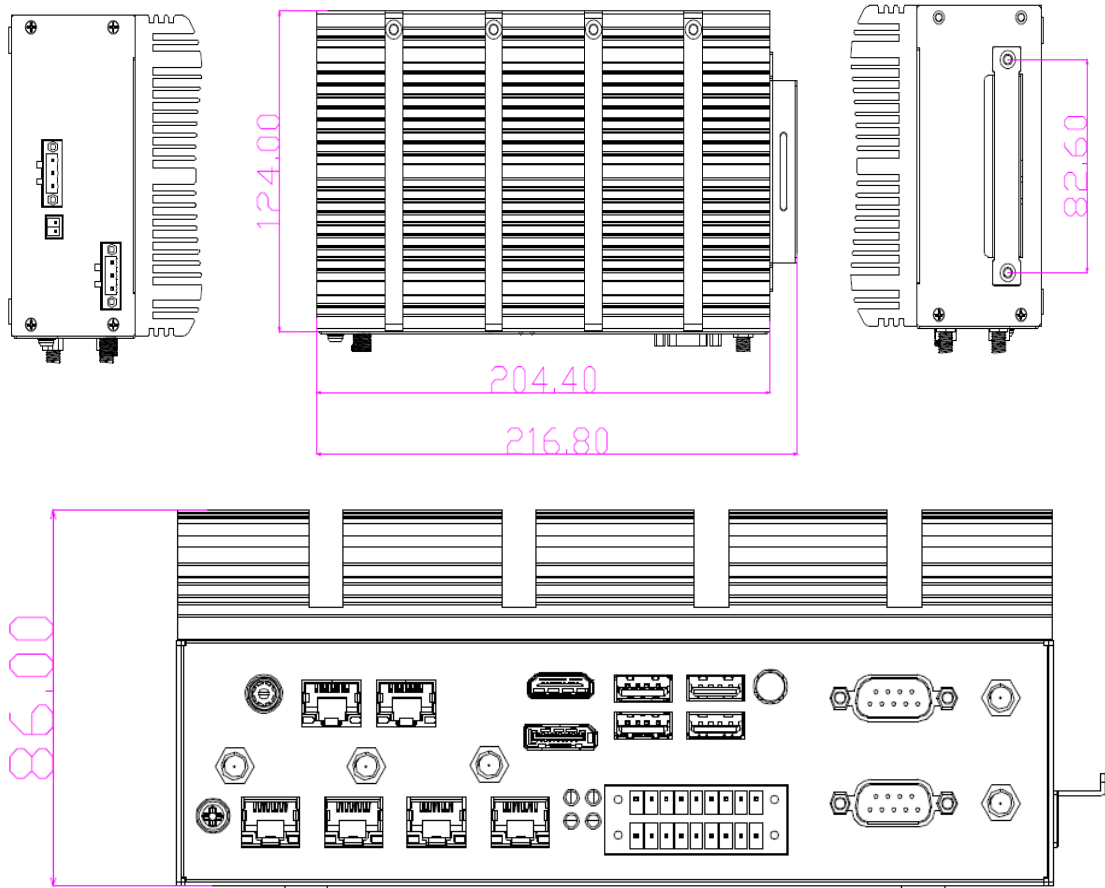
## Specifications

Model	
Model	<ul style="list-style-type: none"> <li>- HM-5002 (vPRO Model)</li> <li>- HM-5004 (Default)</li> <li>- HM-5007 (Essential Model)</li> </ul>
General	
Certification	- FCC, CE, ROHS
Dimensions	- 216.8 x 124 x 86mm (W x D x H)
Mounting	- Wall Mount, Din Rail Mount
Power Requirements	- 12 ~ 36VDC
Power Consumption	- Change according to CPU
OS Support	- Windows 10/11, Linux
Hardware	
BIOS	- AMI 128Mbit Flash BIOS
CPU	<ul style="list-style-type: none"> <li>- HM-5002 (8365Ue, vPRO Model): Intel® Whiskey Lake Mobile U i5-8365Ue</li> <li>- HM-5004 (8265U, Default): Intel® Whiskey Lake Mobile U i5-8265U</li> <li>- HM-5007 (4305Ue, Essential Model): Intel® Whiskey Lake Mobile U Celeron 4305Ue</li> </ul>
Memory	- 2* SO-DIMM DDR4 2400/2133 Dram (Max 64GB)
Graphics	- Intel® UHD Graphics (by CPU)

Ethernet	- 1* Intel® i219LM GbE - 1* Intel® i211AT GbE - 4* PoE GbE (I350AM4)
Storage	- 1* 2.5" external cold-swap SATA3 bay - 1* M.2 M key (2242/2280 size, SATA or NVMe interface for SSD)
Expansion	- 1* M.2 E key (2230 size, CNVi interface for WIFI/BT) - 1* M.2 B key (3042/3052 size for 3G/4G/5G Module)
<b>Front I/O Interface</b>	
Serial Port	- 2* RS-232/422/485 with DB9 connectors, automatic RS-485 data flow control
Display	- 1* HDMI 1.4b, support 4096 x 2304@30Hz - 1* DP 1.2, support 4096 x 2304@60Hz
LAN	- 2* RJ45, 10/100/1000 Mbps - 4* RJ45 PoE 10/100/1000 Mbps, support IEEE802.3AF/AT (up to 100W)
GPIO	- 16 bit GPIO 5KV optical isolation(5V/12V; support 8x DIN + 8x DIO)
USB	- 2* USB3.0 - 2* USB2.0
LED	- 4* PoE LED - 1* Power LED - 1* HDD LED
Power Button	- 1* power button (Power LED)
<b>Side I/O Interface</b>	
Power Connector	- 1* 3 Pin, terminal Block with lock for Main board - 1* 3 Pin, terminal Block with lock for 4x PoE LAN
Front Power Button	- 1* 2Pin for remote power switch function
<b>Environment</b>	
Temperature	- Operating: -10°C ~ 50°C - Storage: -20°C ~ 70°C
Relative Humidity	- 10~90% RH, non-condensing
CE/LVD/FCC Protection	- EN 55032 : 2015 - EN 55035 : 2017 - EN 61000-3-2 : 2019 - EN 61000-3-3 : 2013 + A1 : 2019 - EN 62368-1:2014 + A11 : 2017
<b>Warranty</b>	
Warranty	- 2 Years Limited Warranty

\*Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

## Mechanical Drawings (Unit = mm)



## Standard Accessories

Parts Number	Description
-----	HM-5000 Series
L01AS056-F	Adapter 19V/6.32A 120W
Change according to shipping area	Power cord
	Screw Pack
HCSHM5000MWM01S-F	Wall Mount
HCSLOCK01S-F	Din Rail screw pack
HCSHM5000DR01S-F	Din Rail