# WM130-RPS

Q670E
R680E
H610E

**14th/13th/12th Gen Intel® Core™**
Wallmount Desktop Box IPC



## KEY FEATURES

### Compact Size
Compact design for effortless setup and deployment

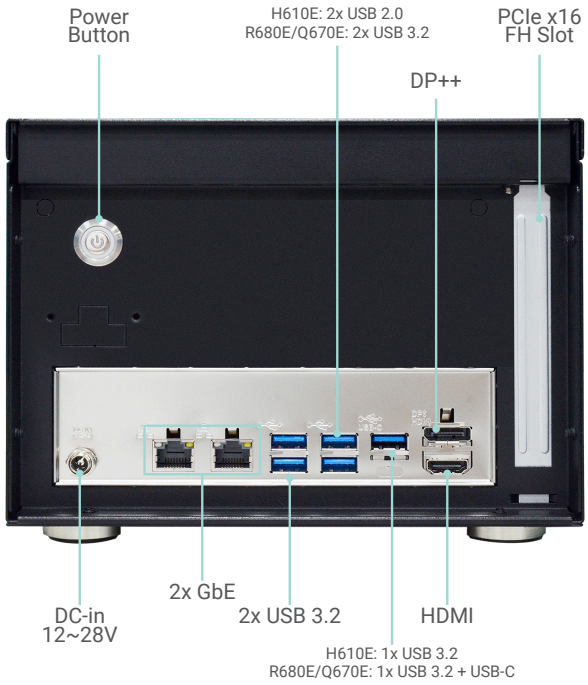
### One-Side Rich I/O
2 Intel 2.5GbE, 2 COM, 6 USB 3.2,1 HDMI 2.0, 1 DP++ 1.2

### One PCIe Slot Expansion
Support full height GPU/IO card by single slot

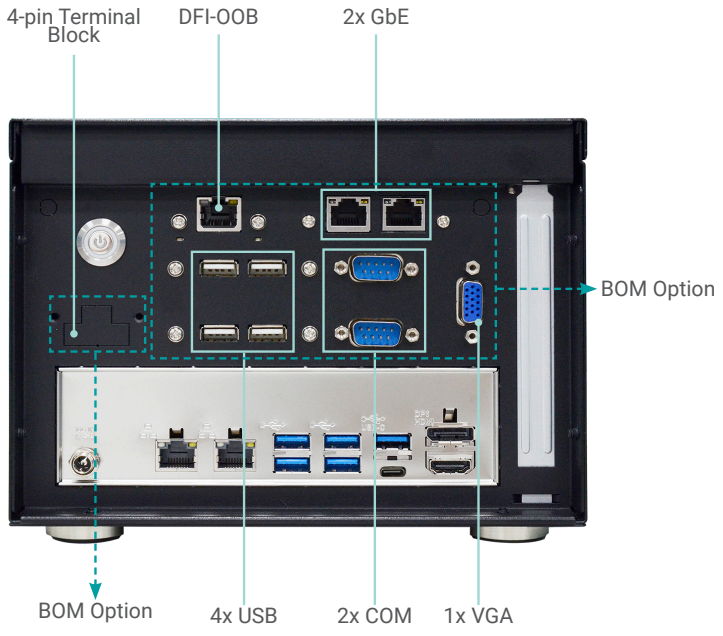
### DFI Out-of-Band Solution
DFI OOB module support with WM130-RPS by project

### More IO Expansions
Reserve USB/DB9/LAN I/O holes for expansion requests

## PANEL

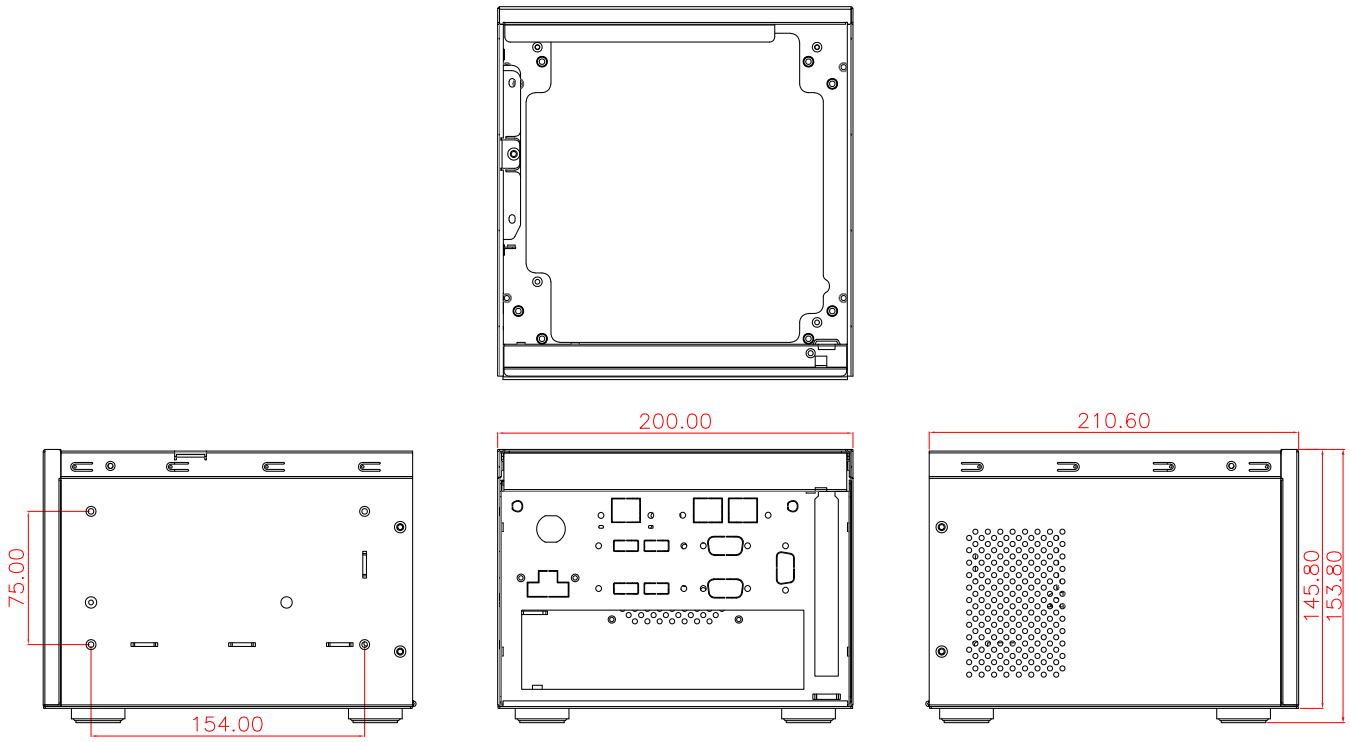



Front View




Front View- BOM optional items

## DIMENSIONS



## SPECIFICATION

| | | | |
|---|---|---|---|
| **SYSTEM** | **Processor** | 14th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W<br>Intel® Core™ I9-14900 (24 Cores, 36M Cache, up to 5.8 GHz); 65W<br>Intel® Core™ I9-14900T (24 Cores, 36M Cache, up to 5.5 GHz); 35W<br>Intel® Core™ I7-14700 (20 Cores, 33M Cache, up to 5.4 GHz); 65W<br>Intel® Core™ I7-14700T (20 Cores, 33M Cache, up to 5.2 GHz); 35W<br>Intel® Core™ I5-14500 (14 Cores, 24M Cache, up to 5.0 GHz); 65W<br>Intel® Core™ I5-14500T (14 Cores, 24M Cache, up to 4.8 GHz); 35W<br>Intel® Core™ I5-14400 (10 Cores, 20M Cache, up to 4.7 GHz); 65W<br>Intel® Core™ I5-14400T (10 Cores, 20M Cache, up to 4.5 GHz); 35W<br>Intel® Core™ I3-14100 (4 Cores, 12M Cache, up to 4.7 GHz); 60W<br>Intel® Core™ I3-14100T (4 Cores, 12M Cache, up to 4.4 GHz); 35W<br>Intel® 300 (2 Cores,6M Cache, 3.9 GHz); 46W<br>Intel® 300T (2 Cores, 4M Cache, 3.4 GHz); 35W<br><br>13th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W<br>Intel® Core™ I9-13900E (24 Cores, 36M Cache, up to 5.2 GHz); 65W<br>Intel® Core™ I9-13900TE (24 Cores, 36M Cache, up to 5.0 GHz); 35W<br>Intel® Core™ I9-13900 (24 Cores, 36M Cache, up to 5.6 GHz); 65W<br>Intel® Core™ I7-13700E (16 Cores, 30M Cache, up to 5.1 GHz); 65W<br>Intel® Core™ I7-13700TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W<br>Intel® Core™ I7-13700 (16 Cores, 30M Cache, up to 5.2 GHz); 65W<br>Intel® Core™ I7-13700T (16 Cores, 30M Cache, up to 4.9 GHz); 35W<br>Intel® Core™ I5-13500E (14 Cores, 24M Cache, up to 4.6 GHz); 65W<br>Intel® Core™ I5-13500TE (14 Cores, 24M Cache, up to 4.5 GHz); 35W<br>Intel® Core™ I5-13500 (14 Cores, 24M Cache, up to 4.8 GHz); 65W<br>Intel® Core™ I5-13500T (14 Cores, 24M Cache, up to 4.6 GHz); 35W<br>Intel® Core™ I5-13400E (10 Cores, 20M Cache, up to 4.6 GHz); 65W<br>Intel® Core™ I5-13400 (10 Cores, 20M Cache, up to 4.6 GHz); 65W<br>Intel® Core™ I3-13100E (4 Cores, 12M Cache, up to 4.4 GHz); 65W<br>Intel® Core™ I3-13100TE (4 Cores, 12M Cache, up to 4.1 GHz); 35W<br>Intel® Core™ I3-13100 (4 Cores, 12M Cache, up to 4.5 GHz); 65W<br>Intel® Core™ I3-13100T (4 Cores, 12M Cache, up to 4.2 GHz); 35W<br>Intel® G7400E (2 Cores, 6M Cache, 3.6 GHz); 46W<br>Intel® G7400TE (2 Cores, 6M Cache, 3.0 GHz); 35W<br>Intel® G6900E (2 Cores, 4M Cache, 3.0 GHz); 46W<br>Intel® G6900TE (2 Cores, 4M Cache, 2.4 GHz); 35W<br><br>12th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W<br>Intel® Core™ i9-12900E (16 Cores, 30M Cache, up to 5.0 GHz); 65W<br>Intel® Core™ i9-12900TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W<br>Intel® Core™ i9-12900(16 Cores, 30M Cache, up to 5.0 GHz); 65W<br>Intel® Core™ i7-12700E (12 Cores, 25M Cache, up to 4.8 GHz); 65W<br>Intel® Core™ i7-12700TE (12 Cores, 25M Cache, up to 4.7 GHz); 35W<br>Intel® Core™ i7-12700 (12 Cores, 25M Cache, up to 4.8 GHz); 65W<br>Intel® Core™ i5-12500E (6 Cores, 18M Cache, up to 4.5 GHz); 65W<br>Intel® Core™ i5-12500TE (6 Cores, 18M Cache, up to 4.3 GHz); 35W<br>Intel® Core™ i5-12500 (6 Cores, 18M Cache, up to 4.6 GHz); 65W<br>Intel® Core™ i5-12400 (6 Cores, 18M Cache, up to 4.4 GHz); 65W<br>Intel® Core™ i3-12100E (4 Cores, 12M Cache, up to 4.2 GHz); 60W<br>Intel® Core™ i3-12100TE (4 Cores, 12M Cache, up to 4.0 GHz); 35W<br>Intel® Core™ i3-12100 (4 Cores, 12M Cache, up to 4.3 GHz); 60W<br>Intel® G7400E (2 Cores, 6M Cache, 3.6 GHz); 46W<br>Intel® G7400TE (2 Cores, 6M Cache, 3.0 GHz); 35W<br>Intel® G6900E (2 Cores, 4M Cache, 3.0 GHz); 46W<br>Intel® G6900TE (2 Cores, 4M Cache, 2.4 GHz); 35W | |
| | **Chipset** | Intel® R680E/H610E Chipset<br>Q670 Chipset by project support | |
| | **Memory** | Dual DDR5 SODIMM 5600MHz up to 64GB (ECC support by R680E sku) | |
| | **BIOS** | AMI SPI 256Mbit | |
| **GRAPHICS** | **Controller** | Intel® UHD Graphics 700 series | |
| | **Feature** | 3D graphics HW acceleration: DX12, Open GL 4.6, Vulkan 1.2 | |
| | | HW Video Decode: 8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1; 5K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC | |
| | | HW Video Encode: 8K30 or 5K60 8b/10b 4:2:0 HEVC/VP9/SCC; 4K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC | |
| | **Display** | 1 x HDMI 2.0<br>1 x DP++ 1.2<br>1 x USB Type-C (R680E/Q670E) | HDMI: resolution up to 4096x2160 @ 60Hz<br>DP++: resolution up to 4096x2304 @ 60Hz<br>USB Type C: resolution up to 4096x2304 @ 60Hz (R680E/Q670E) |
| **STORAGE** | **Internal** | 1 x 2.5" SATA 3.0 SSD<br>1 x M.2 2280 M Key (PCIe x4/SATA) | |
| **EXPANSION** | **Interface** | 1 x PCIe x16 (Gen 5) (Max. 75W)<br>1 x M.2 2230 E Key<br>1 x M.2 2242/3042/3052 B Key<br>1 x M.2 2280 M Key | |
| **AUDIO** | **Audio Codec** | Realtek ALC888 | |

## SPECIFICATION

| | | | |
|---|---|---|---|
| **ETHERNET** | **Controller** | **R680E/Q670E** | **H610E** |
| | | 1 x Intel® I226-LM (Core i9/i7/i5 support iAMT)<br>1 x Intel® I226-V | 2 x Intel® I226-V |
| **LED** | **Indicators** | 1 x Power LED | |
| **I/O** | **Ethernet** | 2 x 2.5GbE (RJ-45) | |
| | **Display** | 1 x HDMI 2.0<br>1 x DP++ 1.2<br>1 x USB Type-C | |
| | **USB** | **R680E/Q670E** | **H610E** |
| | | 5 x USB 3.2 Gen2 Type A<br>1 x USB 3.2 Gen2 USB Type C | 2 x USB 3.2 Gen2<br>1 x USB 3.2 Gen1<br>2 x USB 2.0 |
| | **Buttons** | 1 x Power button | |
| **WATCHDOG TIMER** | **Output & Interval** | System Reset, Programmable via Software from 1 to 255 Seconds | |
| **SECURITY** | **TPM** | Nuvoton TPM 2.0 | |
| **POWER** | **Type** | DC Jack or 4-Pin terminal block with Wide Range 12~28V | |
| | **Connector** | DC-in Jack/Terminal Block(Opt.) | |
| | **Consumption** | TBD | |
| | **Supply** | CR2032 Coin Cell | |
| **COOLING** | **Fan** | 1 x 8cm System Fan, with replaceable air filter | |
| **OS SUPPORT** | **Microsofts** | Windows® 11 IoT Enterprise LTSC 2024 | |
| **ENVIRONMENT** | **Operating Temperature** | -5° to 50° C | |
| | **Storage Temperature** | -40 to 85°C | |
| | **Relative Humidity** | 5 to 95% RH (non-condensing) | |
| **MECHANICAL** | **Construction** | Sheet Metal | |
| | **Mounting** | Wall mount | |
| | **Dimensions (W x H x D)** | 200 x 145.8 x 210.6 mm | |
| | **Weight** | TBD | |
| | **Color** | Black | |
| **STANDARDS AND CERTIFICATIONS** | **Shock** | **Operating:** 3G<br>**Non-operating:** 5G | |
| | **Vibration** | **Operating:** 0.5G<br>**Non-operating:** 1.5G | |
| | **Package Drop** | ISTA Project 1A | |
| | **Certification** | CE, FCC, RoHS, UKCA | |

## ORDERING INFORMATION

| Model Name | Part Number | Description |
|---|---|---|
| WM130-RPS | 750-WM13000-000G | WM130-RPS: m-ITX System, RPS103-R680E, 1 DP, 1 HDMI, 2 x2.5 GbE, 5 USB 3.2, 1 USB-C, 1 PCIex16, dTPM,12~28V DC-IN, F/G SYSTEM RoHS |
| WM130-RPS | 750-WM13000-100G | WM130-RPS: m-ITX System, RPS103-H610E, 1 DP, 1 HDMI, 2 x2.5 GbE, 3 USB 3.2, 2 USB 2.0, 1 PCIex16, dTPM,12~28V DC-IN, F/G SYSTEM RoHS |

## PACKING LIST

1 WM130-RPS System Unit(w/o CPU cooler)

## Optional Items

| Optional items | PN | Q'ty | Description |
|---|---|---|---|
| VGA Module | 774-DP2VGA-000G | 1 | WM130-RPS DP-to-VGA MODULE CARD up to 1920x1080 60Hz |
| | A33-5B201C-040G | 2 | |
| | A81-011100-001G | 1 | |
| | A81-004451-016G | 1 | |
| 2x GbE LAN Module | 774-M22LN2-100G | 1 | 2x GbE Lan ports of M.2 B-M key |
| | 774-M2LAN1-000G | 1 | |
| | A81-009898-016G | 1 | |
| | 531-510210-000G | 2 | |
| 1x GbE LAN Module | 774-M21LN2-100G | 1 | 1x GbE Lan ports of M.2 B-M key |
| | 774-M2LAN1-100G | 1 | |
| | A81-009898-016G | 1 | |
| | 531-510210-000G | 2 | |
| DFI OOB Module | 774-SETOOB-000G | 1 | DFI OOB module kit Assy for WM130-RPS. RoHS |
| | A81-009824-016G | 1 | |
| | A81-001197-018G | 1 | |
| | A81-009808-016G | 1 | |
| | A81-009810-018G | 1 | |
| | A81-009809-016G | 1 | |
| | 531-510210-000G | 2 | |
| 2 USB 2.0 ports | A81-001218-016G | 1 | 2x USB2.0 cable, L=100mm |
| | A32-E13019-100G | 2 | |
| 2 x RS-232/422/485 | A81-015104-016G | 1 | COM PORT CABLE with 2 NUT, L=110mm |
| | A33-5B201C-040G | 2 | |
| SATA Cable | A81-002172-016G | 1 | SATA CABLE, SATA 7+15P, L=150mm |
| M.2 Screws | A32-112016-041G | 1 | SCREW M2x4 MM |
| Wall mount kit | 622-150570-000G | 1 | ACCESSORY WALL MOUNT KITS WM13x Series RoHS |

| Adapter | PN | Description | Power cord PN |
|---|---|---|---|
| 150W | 671-115004-000G | 150W,Input:100~240V,Output:24V/6.25A,138x66x22mm L=1500mm,DC PLUG 5.5*2.5*10mm (Lockable) | A81-000003-000G |
| 160W | 671-116005-000G | 160W,,Input:100~240V,Output:24V/6.67A,175x72x35mm, L=1200mm,DC PLUG 5.5*2.5*7.5mm (Lockable) | A81-000056-000G<br>A81-000046-000G |



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