

# USM-260

## 7th/6th Generation Intel® Desktop Series Multiple Functional Box PC



### Features

- Embedded Intel® 7th/6th Generation Kaby Lake/Skylake desktop 35W Core™ i7/i5/i3, Pentium® and Celeron® processors
- Compact Design for space saving
- Easy access to dual 2.5" HDD/SSD tray in front cover
- Dual Display: DP+HDMI or DP+VGA or HDMI+VGA
- Multiple IO with up to 8 x USB, 2 x LAN, 4 x COM is suitable for variety of application requests
- Easy/quick installation for expansion parts (Mini PCIe) and RAM and mSATA
- Flexibility for mounting : VESA, Wall/Desk



### Introduction

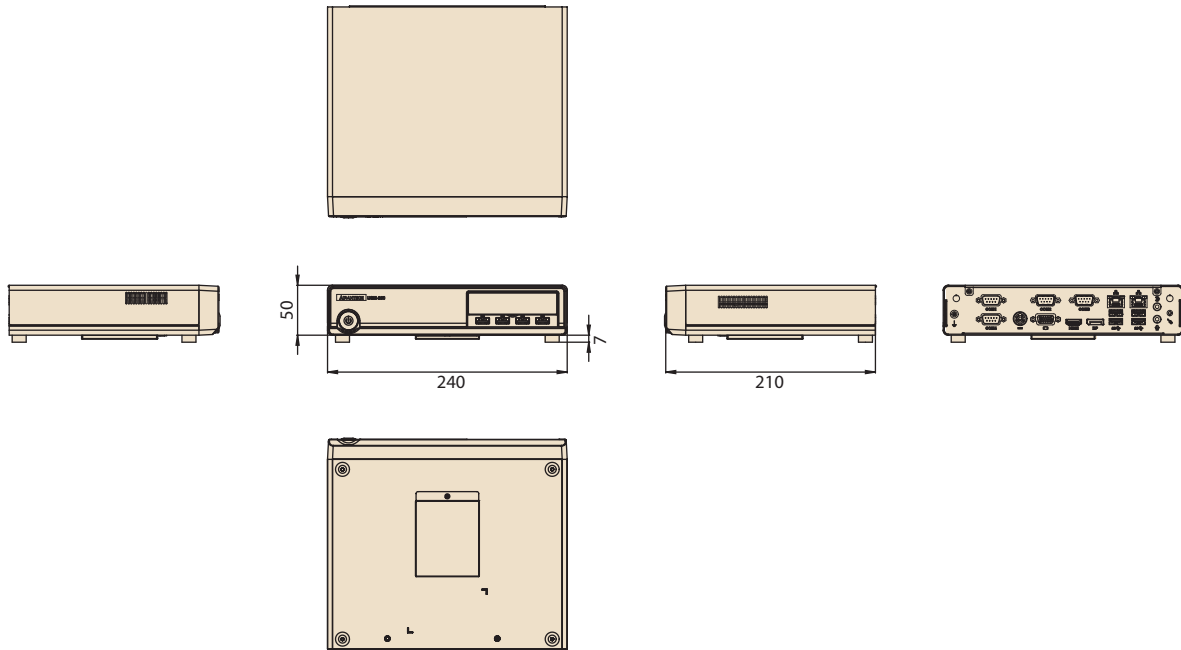
USM-260 is an intelligent multi-functional box PC equipped with the 7th/6th generation Intel desktop processor. The system's compact design and multiple IO interface support to integrate in diverse peripherals and various application solutions that targeted at a wide range of applications (eg. Self-service system, POS system, Digital Signage Player, Edge Computing, AI and so on) in semi-industrial, retail and hospital markets.

### Specifications

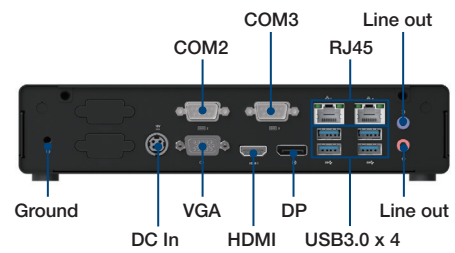
|               |                            |   |                 |                |                |                |
|---------------|----------------------------|---|-----------------|----------------|----------------|----------------|
| Processor     | Intel 7th Generation CPU   | Core i3-7101TE  | Core i5-7500T   | Core i7-7700T  |                |                |
|               | Max Speed                  | 3.4G  | 3.3G            | 3.8G           |                |                |
|               | Intel 6th Generation CPU   | Celeron G3900TE   | Pentium G4400TE | Core i3-6100TE | Core i5-6500TE | Core i7-6700TE |
|               | Max Speed                  | 2.3G  | 2.4G            | 2.7G           | 3.3G           | 3.4G           |
|               | TDP                        | 35W(With Smart Fan)   |                 |                |                |                |
|               | Chipset                    | H110  |                 |                |                |                |
| Memory        | Technology                 | Dual channel DDR4 2133 MHz SDRAM (Non-ECC)  |                 |                |                |                |
|               | Max Capacity               | Up to 32GB (16GB per S0-DIMM)   |                 |                |                |                |
|               | Socket                     | 2 x 260-pin S0-DIMM   |                 |                |                |                |
| Storage       | SATA 3.0                   | 2   |                 |                |                |                |
|               | mSATA                      | 1 (by Mini card slot support)   |                 |                |                |                |
| Graphic       | Capacity                   | Integrated Intel® HD Graphics 530   |                 |                |                |                |
|               | HDMI                       | Max. resolution 4096 x 2160 @ 24 Hz (HDMI 1.4)  |                 |                |                |                |
|               | Display Port               | Max. resolution 4096 x 2160 @ 60Hz  |                 |                |                |                |
|               | VGA                        | Max. resolution 1920 x 1200 @ 60 Hz   |                 |                |                |                |
|               | Dual Display               | DP+HDMI, DP+VGA, HDMI+VGA   |                 |                |                |                |
| Ethernet      | Interface                  | 10/100/1000 Mbps  |                 |                |                |                |
|               | Controller                 | Realtek RTL8111G GbE LAN  |                 |                |                |                |
| Audio         | Interface                  | ALC662  |                 |                |                |                |
| Front IO      | USB2.0                     | 0 (Optional 4xUSB)  |                 |                |                |                |
|               | HDD Slot                   | 1 (Optional 2 Slots)  |                 |                |                |                |
| Rear IO       | VGA                        | 1   |                 |                |                |                |
|               | HDMI                       | 1   |                 |                |                |                |
|               | Display Port               | 1   |                 |                |                |                |
|               | RJ-45                      | 2   |                 |                |                |                |
|               | USB3.0                     | 4   |                 |                |                |                |
|               | Serial                     | 2 (Optional 4 x COM)<br>COM2,COM3,COM4 support RS-232 with selectable RI/ 5V/ 12V power, COM1 support RS-232/485with selectable RI/ 5V/ 12V power |                 |                |                |                |
|               | Audio                      | 1 x Line-out, 1 x Mic-in  |                 |                |                |                |
|               | DC Jack                    | 1   |                 |                |                |                |
| Expansion     | Mini PCIe                  | 1 F/S miniPCIe slot support mSATA; 1 H/S miniPCIe slot support PCIe/USB device  |                 |                |                |                |
|               | Color                      | Black   |                 |                |                |                |
| MISCELLANEOUS | Dimension                  | 240 x 210 x 57mm(L x W x H)   |                 |                |                |                |
|               | Power                      | 19V, 90W  |                 |                |                |                |
|               | Mounting Mode              | ACCESSORIES VESA, Wall Mounting, Desktop  |                 |                |                |                |
| Software      | OS                         | WES7P, Win10, POSReady7, Linux Ubuntu 18.04   |                 |                |                |                |
| Environment   | Operating Temperature      | HDD: 0~40 °C, SSD: 0 ~ 50 °C  |                 |                |                |                |
|               | Storage Temperature        | -40 ~ 85 °C (-40 ~ 185 °F)  |                 |                |                |                |
|               | Relative Humidity          | 90% @ 40 °C (non-condensing)  |                 |                |                |                |
|               | Vibration during operation | With HDD:0.5Grms, IEC 60068-2-64, random 5-500HZ, 3 axes, 1hr/axis  |                 |                |                |                |
|               | Shock during operation     | With HDD:10 G, IEC 60068-2-27, half sine, 11 ms duration  |                 |                |                |                |
| Certification |                            | CCC/BSMI/CE/FCC/UL/CB   |                 |                |                |                |

## Dimensions

Unit: mm



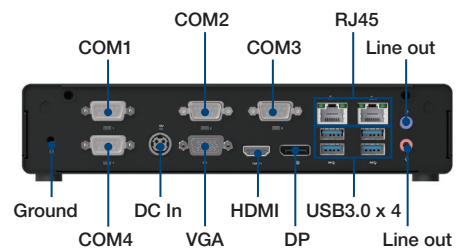
## Standard – Integrated I/O



## Fully- Integrated I/O



4 x USB2.0 (Optional)



## Ordering Information

| PN             | Description  | Front Panel |               |    | Rear Panel |     |     |        |     |       |
|----------------|--|-------------|---------------|----|------------|-----|-----|--------|-----|-------|
|                |  | USB2.0      | HDD/SSD Slots | DP | HDMI       | VGA | LAN | USB3.0 | COM | Audio |
| USM-260F-BST00 | Intel Skylake LGA1151 Desktop Platform Mini BOX PC w/o CPU and RAM and Storage, Standard Version | 0           | 1             | 1  | 1          | 1   | 2   | 4      | 2   | 2     |
| USM-260F-BFL00 | Intel Skylake LGA1151 Desktop Platform Mini BOX PC w/o CPU and RAM and Storage, Full Version     | 4           | 2             | 1  | 1          | 1   | 2   | 4      | 4   | 2     |

## Accessory

| Accessory      | PN  | Description  |
|----------------|---|--|
| CPU            | 96MPI3K-3.4-3M11T                                     | CORE 3.4G 3M 1151P 2CORE I3-7101TE                                 |
|                | 96MPI5K-2.7-6M11T                                     | CORE 2.7G 6M 1151P 4CORE I5-7500T                                  |
|                | 96MPI7K-2.9-8M11T                                     | CORE 2.9G 8M 1151P 4CORE I7-7700T                                  |
|                | 96MPCLS-2.3-2M11T                                     | CELERON 2.3G 2M 1151P G3900TE                                      |
|                | 96MPPS-2.4-3M11T                                      | PENTIUM 2.4G 3M 1151P 2 CORE G4400TE                               |
|                | 96MPI3S-2.7-4M11T                                     | CORE 2.7G 4M 1151P 2 CORE I3-6100TE                                |
|                | 96MPI5S-2.3-6M11T1                                    | CORE 2.3G 6M 1151P 4 CORE I5-6500TE                                |
| RAM            | 96MPI7S-2.4-8M11T1                                    | CORE 2.4G 8M 1151P 4 CORE I7-6700TE                                |
|                | AQD-SD4U4GN24-SG                                      | 4G, DDR4 260 PIN 2400 Mhz SODIMM                                   |
|                | AQD-SD4U8GN24-SE                                      | 8G, DDR4 260 PIN 2400 Mhz SODIMM                                   |
| Storage        | AQD-SD4U16N24-HE                                      | 16G, DDR4 260 PIN 2400 Mhz SODIMM                                  |
|                | SQF-S25M4-64G-S9C                                     | SQF 2.5" SSD 630 64G MLC (0~70°C)                                  |
|                | SQF-S25M4-128G-S9C                                    | SQF 2.5" SSD 630 128G MLC (0~70°C)                                 |
|                | SQF-S25M4-256G-S9C                                    | SQF 2.5" SATA SSD 630 256 MLC (0~70°C)                             |
|                | SQF-S25V2-128G-SBC                                    | SQF 2.5" SATA SSD 640 128G BiCS3 3D NAND (0~70°C)                  |
|                | SQF-S25V4-256G-SBC                                    | SQF 2.5" SATA SSD 640 256G BiCS3 3D NAND (0~70°C)                  |
|                | 96ND500G-ST-SG5KA1                                    | SEAGATE 500G 2.5" SATAIII 5KRPM 16M(G)24*7                         |
| Wi-Fi Module   | SQF-SMSM4-64G-S9C                                     | SQF MSATA 630 64G MLC (0~70°C)                                     |
|                | SQF-SMSM4-32G-S9C                                     | SQF MSATA 630 32G MLC (0~70°C)                                     |
|                | EWM-W135H01E  | 802.11 a/b/g/n, Atheros AR9382, 2T2R                               |
|                | 1750007465-01*2                                       | Antenna Cable SMA(FR)/Mini coaxia L30cm                            |
|                | 1750008717-01*2                                       | Dipole Ant. D.B 2.4/5G WIFI 3dBi SMA/M-R BLK(outer antenna)        |
| Power Cord     | EWM-W168H01E  | RTL8822BE-CG 802.11 a/b/g/n/ac WIFI with Bluetooth 4.2 combo ,2T2R |
|                | 1750007965-01*2                                       | Antenna Cable R/P SMA (M) to MHF4, 300mm                           |
|                | 1750008717-01*2                                       | Dipole Ant. D.B 2.4/5G WIFI 3dBi SMA/M-R BLK(outer antenna)        |
|                | 96CB-POWER-B-1.8MB                                    | RW0.75 Black/3L 1.8M(CCC)  |
|                | 1700001524  | 3P UL 10A 125V 180cm(American)                                     |
|                | 170203183C  | 3P EU (WS-010+083) 183CM(European)                                 |
|                | 1700018553  | Power Cord SAA 3P 2.5A 250V 183cm(Australia)                       |
|                | 1700025113-11   | Power Cord ISI 3P 2.5A 250V 180cm(India)                           |
| Windows OS     | 1700018409  | Power Cord KCC 2P 2.5A 250V 183cm(Korea,Russia)                    |
|                | 1700024849-01   | Power Cord BSMI 3P 2.5A 125V 180cm(Taiwan)                         |
|                | 170203180A  | Power Cord BSI 3P 2.5A 250V 183cm(UK)                              |
|                | 1700008921  | 3P 1.8M PSE 7A 125V(Japan)   |
|                | 20706WSR7S0002  | img PR7 USM-260 64b V1.0 ENU                                       |
| 20706WE7PS0013 | img WES7P USM-260 64b 1709 10 MUI                     |  |
| 20708WX9ES0009 | img W10 19EL USM-260 64b 1809 MUI for Celeron/Pentium |  |
| 20708WX9VS0006 | img W10 19VL USM-260 64b 1809 MUI for Core i3/i5      |  |
| 20708WX9HS0001 | img W10 19HL USM-260 64b 1809 MUI for Core i7         |  |

Notes : Can support Ubuntu 18.04 or higher by request