



**7th Gen Intel® Core™ Processor**  
**Modular-Designed Industrial Panel PC**

## KSM-KH Series

CM238

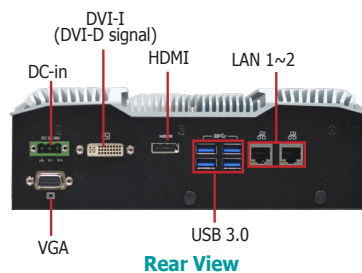
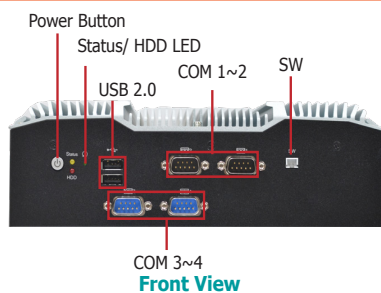


### Features

- Support Adaptive Display Platform
- Multiple Panel Sizes with Resistive/P-Capacitive Touch Screen
- Intel® Core™ Processor with Fanless Design
- Supports 9~36V Power Input
- IP65 Front Panel Protection
- Operating Temperature: -20 to 50°C



### System





## Standard Ratio Specifications

| MODEL NAME                   |                                 | KSM150-KH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | KSM170-KH                                                                                                                                                              | KSM190-KH                 |
|------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| DISPLAY & TOUCH SCREEN       | Display Type                    | 15" TFT LCD Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 17" TFT LCD Pane                                                                                                                                                       | 19" TFT LCD Panel         |
|                              | Max. Resolution                 | 1024 x 768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1280 x 1024                                                                                                                                                            | 1280 x 1024               |
|                              | Brightness (cd/m <sup>2</sup> ) | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 350                                                                                                                                                                    | 350                       |
|                              | Touch Type                      | Projected Capacitive / 5-wire Resistive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                        |                           |
|                              | Backlight Lifetime (hours)      | 70,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30,000                                                                                                                                                                 | 70,000                    |
| FRONT I/O                    | USB (Optional)                  | 1 x USB 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                        |                           |
|                              | OSD (Optional)                  | Backlight On-Off / Brightness Up / Brightness Down / Audio Up / Audio Down                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                        |                           |
|                              | LED Indicators (Optional)       | Power LED / HDD LED / Alarm LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
| OTHERS                       | Auto Dimming (Optional)         | Light Sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                        |                           |
| ENVIRONMENT                  | Operating Temperature           | -20 to 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 to 45°C                                                                                                                                                              | -20 to 50°C               |
|                              | Storage Temperature             | -30 to 70°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -30 to 70°C                                                                                                                                                            | -30 to 70°C               |
|                              | Relative Humidity               | 5 to 90% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                        |                           |
| SYSTEM                       | Processor                       | 7th Generation Intel® Core™ Processors, BGA 1440<br>Intel® Xeon® Processor E3-1535M v6, Quad Core, 8M Cache, 3.1GHz (4.2GHz), 45W<br>Intel® Core™ i7-7820EQ Processor, Quad Core, 8M Cache, 3.0GHz (3.7GHz), 45W<br>Intel® Core™ i5-7440EQ Processor, Quad Core, 6M Cache, 2.9GHz (3.6GHz), 45W<br>Intel® Core™ i5-7442EQ Processor, Quad Core, 6M Cache, 2.1GHz (2.9GHz), 25W<br>Intel® Core™ i3-7100E Processor, Dual Core, 3M Cache, 2.9GHz, 35W<br>Intel® Core™ i3-7102E Processor, Dual Core, 3M Cache, 2.1GHz, 25W |                                                                                                                                                                        |                           |
|                              | Chipset                         | Intel® CM238 Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Intel® QM175 Chipset                                                                                                                                                   |                           |
|                              | Memory                          | Two 260-pin SODIMM up to 32GB (CM238 supports ECC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                        | Dual Channel DDR4 2400MHz |
|                              | BIOS                            | Insyde SPI 128Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                        |                           |
| GRAPHICS                     | Controller                      | Intel® HD Graphics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                        |                           |
|                              | Feature                         | OpenGL up to 5.0, DirectX 11, OpenCL 2.1<br>HW Decode: HEVC/H.265, H.264, M/JPEG, MPEG2, VC1/WMV9, VP8 (8-bit), VP9 (10-bit)<br>HW Encode: HEVC/H.265, M/JPEG, MPEG2, VP8                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        |                           |
|                              | Display                         | 1 x VGA<br>1 x HDMI/DVI (DVI-D signal) (DVI available upon request)<br>1 x HDMI/DP++ (DP++ available upon request)                                                                                                                                                                                                                                                                                                                                                                                                       | VGA: resolution up to 1920x1200 @ 60Hz<br>DVI: resolution up to 2560x1600 @ 60Hz<br>HDMI: resolution up to 4096x2160 @ 24Hz<br>DP++: resolution up to 4096x2304 @ 60Hz |                           |
|                              | Triple Displays                 | VGA + HDMI/DVI (DVI-D signal) + HDMI/DP++                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        |                           |
|                              |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
| STORAGE EXPANSION            | Internal                        | 1 x 2.5" SATA 3.0 Drive Bay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                        |                           |
|                              | Interface                       | 1 x Full-size Mini PCIe with micro SIM socket (PCIe/USB)<br>1 x Full-size Mini PCIe with micro SIM socket (USB)<br>1 x M.2 M Key 2280 (PCIe x4)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
|                              |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
| ETHERNET                     | Controller                      | 1 x Intel® I211AT PCIe (10/100/1000Mbps)<br>1 x Intel® I219LM with iAMT11.0 PCIe (10/100/1000Mbps) (only Core i7/i5 supports iAMT)                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                        |                           |
| LED                          | Indicators                      | 1 x Power LED<br>1 x Status LED<br>1 x HDD LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                        |                           |
| FRONT I/O                    | Serial                          | 2 x RS-232/422/485 (DB-9) (RS-232 with power)<br>2 x RS-232/422/485 (DB-9)                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                        |                           |
|                              | USB                             | 2 x USB 2.0 (type A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                        |                           |
|                              | Buttons                         | 1 x Power Button<br>1 x Reset Button                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                        |                           |
|                              | Wi-Fi Antenna                   | 2 x Wi-Fi Module Antenna Hole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |                           |
| REAR I/O                     | Ethernet                        | 2 x GbE (RJ-45)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
|                              | USB                             | 4 x USB 3.0 (type A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                        |                           |
|                              | Display                         | 1 x VGA<br>1 x HDMI/DVI (DVI-D signal) (DVI available upon request)<br>1 x HDMI/DP++ (DP++ available upon request)                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                        |                           |
|                              | Audio                           | 1 x Line-out<br>1 x Mic-in (available upon request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                        |                           |
|                              |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
| WATCHDOG TIMER               | Output & Interval               | System Reset, Programmable via Software from 1 to 255 Seconds                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |                           |
| SECURITY                     | TPM                             | TPM 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                        |                           |
| POWER                        | Type                            | Wide Range 9~36V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                        |                           |
|                              | Connector                       | 3-pole Terminal Block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2-pin Power Extension Switch Connector                                                                                                                                 |                           |
| OS SUPPORT                   |                                 | Windows 10 IoT Enterprise LTSB 64 Bit<br>Linux (available upon request)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                        |                           |
| MECHANISM                    | Construction                    | Metal + Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                        |                           |
|                              | Mounting                        | Panel/VESA Mount 100 x 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |                           |
|                              | Dimensions (W x H x D)          | 387 x 320 x 118 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 404 x 363.8 x 102.8 mm                                                                                                                                                 | 467 x 400 x 118mm         |
|                              | Weight                          | 7.7 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8.1 kg                                                                                                                                                                 | 10 kg                     |
| STANDARDS AND CERTIFICATIONS | Shock                           | Half sine wave 3G, 11ms, 3 shock per axis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        |                           |
|                              | Vibration                       | IEC68-2-64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                        |                           |
|                              | Certification                   | CE, FCC, RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |                           |

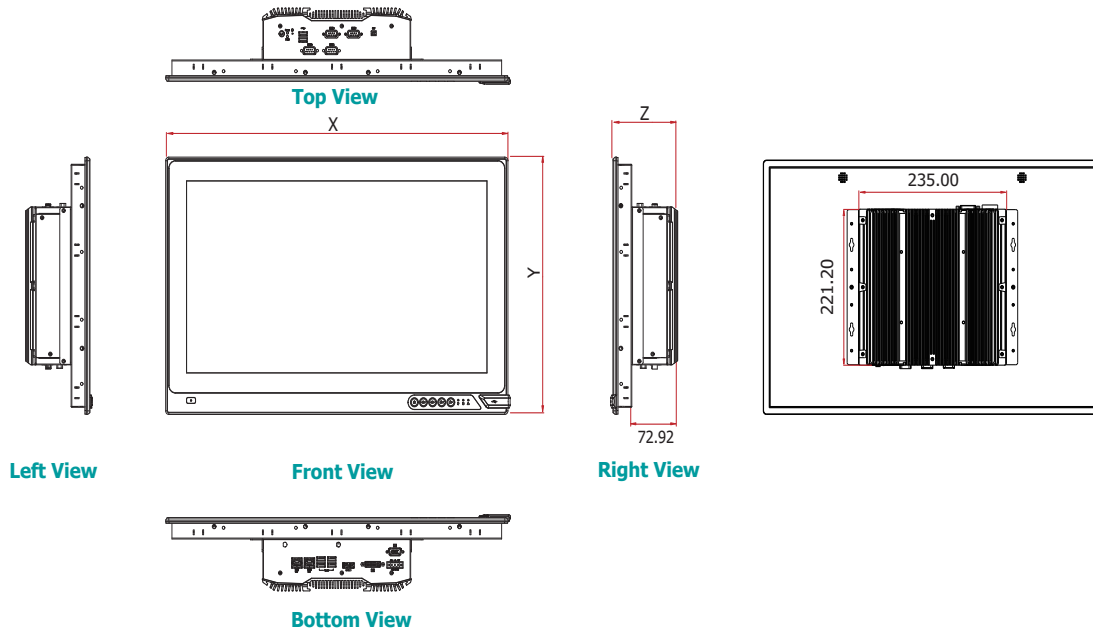


## KSM-KH Series

### Widescreen Ratio Specifications

|                              |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
|------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| MODEL NAME                   |                                 | KSM156-KH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | KSM185-KH                                                                                                                                                              | KSM215-KH                 |
| DISPLAY & TOUCH SCREEN       | Display Type                    | 15.6" TFT LCD Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18.5" TFT LCD Pane                                                                                                                                                     | 21.5" TFT LCD Panel       |
|                              | Max. Resolution                 | 1366 x 768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1366 x 768                                                                                                                                                             | 1920 x 1080               |
|                              | Brightness (cd/m <sup>2</sup> ) | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 450                                                                                                                                                                    | 300                       |
|                              | Touch Type                      | Projected Capacitive / 5-wire Resistive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                        |                           |
|                              | Backlight Lifetime (hours)      | 50,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 50,000                                                                                                                                                                 | 50,000                    |
| FRONT I/O                    | USB (Optional)                  | 1 x USB 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                        |                           |
|                              | OSD (Optional)                  | Backlight On-Off / Brightness Up / Brightness Down / Audio Up / Audio Down                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                        |                           |
|                              | LED Indicators (Optional)       | Power LED / HDD LED / Alarm LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
| OTHERS                       | Auto Dimming (Optional)         | Light Sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                        |                           |
| ENVIRONMENT                  | Operating Temperature           | 0 to 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0 to 50°C                                                                                                                                                              | 0 to 50°C                 |
|                              | Storage Temperature             | -30 to 70°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -30 to 70°C                                                                                                                                                            | -30 to 70°C               |
|                              | Relative Humidity               | 5 to 90% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                        |                           |
| SYSTEM                       | Processor                       | 7th Generation Intel® Core™ Processors, BGA 1440<br>Intel® Xeon® Processor E3-1535M v6, Quad Core, 8M Cache, 3.1GHz (4.2GHz), 45W<br>Intel® Core™ i7-7820EQ Processor, Quad Core, 8M Cache, 3.0GHz (3.7GHz), 45W<br>Intel® Core™ i5-7440EQ Processor, Quad Core, 6M Cache, 2.9GHz (3.6GHz), 45W<br>Intel® Core™ i5-7442EQ Processor, Quad Core, 6M Cache, 2.1GHz (2.9GHz), 25W<br>Intel® Core™ i3-7100E Processor, Dual Core, 3M Cache, 2.9GHz, 35W<br>Intel® Core™ i3-7102E Processor, Dual Core, 3M Cache, 2.1GHz, 25W |                                                                                                                                                                        |                           |
|                              | Chipset                         | Intel® CM238 Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Intel® QM175 Chipset                                                                                                                                                   |                           |
|                              | Memory                          | Two 260-pin SODIMM up to 32GB (CM238 supports ECC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                        | Dual Channel DDR4 2400MHz |
|                              | BIOS                            | Insyde SPI 128Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                        |                           |
|                              | GRAPHICS                        | Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Intel® HD Graphics                                                                                                                                                     |                           |
| Feature                      |                                 | OpenGL up to 5.0, DirectX 11, OpenCL 2.1<br>HW Decode: HEVC/H.265, H.264, M/JPEG, MPEG2, VC1/WMV9, VP8 (8-bit), VP9 (10-bit)<br>HW Encode: HEVC/H.265, M/JPEG, MPEG2, VP8                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        |                           |
| Display                      |                                 | 1 x VGA<br>1 x HDMI/DVI (DVI-D signal) (DVI available upon request)<br>1 x HDMI/DP++ (DP++ available upon request)                                                                                                                                                                                                                                                                                                                                                                                                       | VGA: resolution up to 1920x1200 @ 60Hz<br>DVI: resolution up to 2560x1600 @ 60Hz<br>HDMI: resolution up to 4096x2160 @ 24Hz<br>DP++: resolution up to 4096x2304 @ 60Hz |                           |
| Triple Displays              |                                 | VGA + HDMI/DVI (DVI-D signal) + HDMI/DP++                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        |                           |
| STORAGE EXPANSION            |                                 | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 x 2.5" SATA 3.0 Drive Bay (RAID)                                                                                                                                     |                           |
|                              | Interface                       | 1 x Full-size Mini PCIe with micro SIM socket (PCIe/USB)<br>1 x Full-size Mini PCIe with micro SIM socket (USB)<br>1 x M.2 M Key 2280 (PCIe x4)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
|                              | ETHERNET                        | Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 x Intel® I211AT PCIe (10/100/1000Mbps)<br>1 x Intel® I219LM with iAMT11.0 PCIe (10/100/1000Mbps) (only Core i7/i5 supports iAMT)                                     |                           |
| LED                          | Indicators                      | 1 x Power LED<br>1 x Status LED<br>1 x HDD LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                        |                           |
| FRONT I/O                    | Serial                          | 2 x RS-232/422/485 (DB-9) (RS-232 with power)<br>2 x RS-232/422/485 (DB-9)                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                        |                           |
|                              | USB                             | 2 x USB 2.0 (type A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                        |                           |
|                              | Buttons                         | 1 x Power Button<br>1 x Reset Button                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                        |                           |
|                              | Wi-Fi Antenna                   | 2 x Wi-Fi Module Antenna Hole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |                           |
| REAR I/O                     | Ethernet                        | 2 x GbE (RJ-45)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                        |                           |
|                              | USB                             | 4 x USB 3.0 (type A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                        |                           |
|                              | Display                         | 1 x VGA<br>1 x HDMI/DVI (DVI-D signal) (DVI available upon request)<br>1 x HDMI/DP++ (DP++ available upon request)                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                        |                           |
|                              | Audio                           | 1 x Line-out<br>1 x Mic-in (available upon request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                        |                           |
|                              | WATCHDOG TIMER                  | Output & Interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | System Reset, Programmable via Software from 1 to 255 Seconds                                                                                                          |                           |
| SECURITY                     | TPM                             | TPM 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                        |                           |
| POWER                        | Type                            | Wide Range 9~36V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                        |                           |
|                              | Connector                       | 3-pole Terminal Block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2-pin Power Extension Switch Connector                                                                                                                                 |                           |
| OS SUPPORT                   |                                 | Windows 10 IoT Enterprise LTSB 64 Bit<br>Linux (available upon request)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                        |                           |
| MECHANISM                    | Construction                    | Metal + Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                        |                           |
|                              | Mounting                        | Panel/VESA Mount 100 x 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |                           |
|                              | Dimensions (W x H x D)          | 407.3 x 277.3 x 97.92 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 472.06 x 314.15 x 102.8mm                                                                                                                                              | 544.2 x 360.6 x 118mm     |
|                              | Weight                          | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8.1 kg                                                                                                                                                                 | 9.4 kg                    |
| STANDARDS AND CERTIFICATIONS | Shock                           | Half sine wave 3G, 11ms, 3 shock per axis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        |                           |
|                              | Vibration                       | IEC68-2-64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                        |                           |
|                              | Certification                   | CE, FCC, RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |                           |

► Dimensions

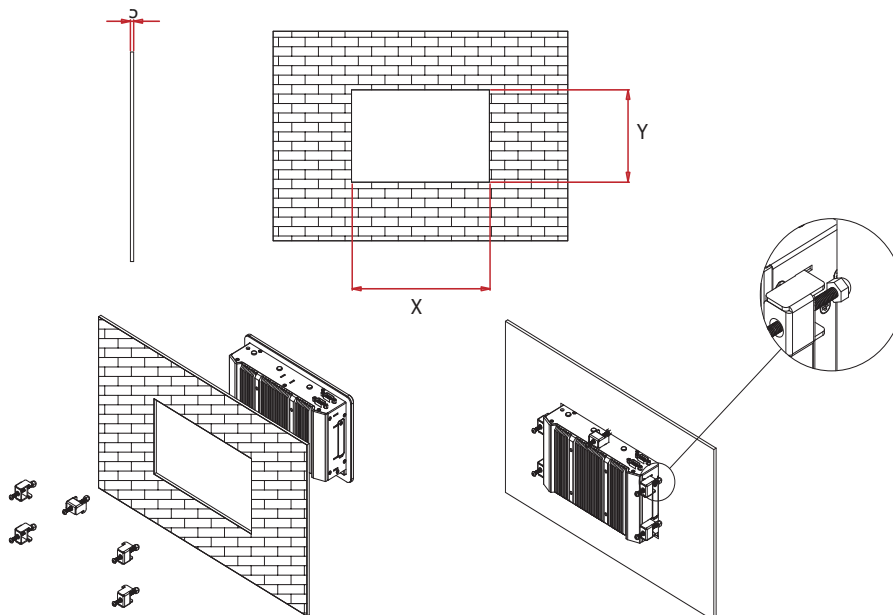


|                     | System Dimensions |        |       |
|---------------------|-------------------|--------|-------|
| Display Type        | X1                | Y1     | Z1    |
| 15" TFT LCD Panel   | 387               | 320    | 118   |
| 15.6" TFT LCD Panel | 407.3             | 277.3  | 97.92 |
| 17" TFT LCD Panel   | 404               | 363.8  | 102.8 |
| 18.5" TFT LCD Panel | 472.06            | 314.15 | 102.8 |
| 19" TFT LCD Panel   | 467               | 400    | 118   |
| 21.5" TFT LCD Panel | 544.2             | 360.6  | 118   |



## KSM-KH Series

### Panel Mounting



Suggested cut out size



|                | System Dimensions (mm) |       |
|----------------|------------------------|-------|
| Display Type   | X1                     | Y1    |
| <b>PMKS150</b> | 367                    | 300   |
| <b>PMKS156</b> | 389.3                  | 259.3 |
| <b>PMKS170</b> | 386                    | 346   |
| <b>PMKS185</b> | 454                    | 296.1 |
| <b>PMKS190</b> | 447                    | 380   |
| <b>PMKS215</b> | 526.2                  | 342.6 |

### Ordering Information

| Model Name                  | Part Number     | Description                                                                                                                                                         |
|-----------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>KSM150P-KHW36</b>        | 750-K15003-100G | 15" TFT XGA Fanless Panel PC with Projected Capacitive Touch, Intel® 6th Core Processor, DC Input 9~36V Terminal, F/G SYSTEM RoHS                                   |
| <b>KSM150R-KHW36</b>        | 750-K15003-200G | 15" TFT XGA Fanless Panel PC with Resistive Touch, Intel® 6th Core Processor, DC Input 9~36V Terminal, F/G SYSTEM RoHS                                              |
| <b>KSM150P-KHW36-i5-KLU</b> | 750-K15003-300G | 15" TFT XGA Fanless Panel PC with Projected Capacitive Touch, OSD, Light Sensor, USB, Intel® 6th Core Processor, DC Input 9~36V Terminal, F/G SYSTEM RoHS           |
| <b>KSM190P-KHW36-i5</b>     | 750-K19002-100G | 19" TFT XGA Fanless Panel PC with Projected Capacitive Touch, Intel® 7th Core Processor i5-7440EQ, DC Input 9~36V Terminal, F/G SYSTEM RoHS                         |
| <b>KSM190R-KHW36-i5</b>     | 750-K19002-200G | 19" TFT XGA Fanless Panel PC with Resistive Touch, Intel® 7th Core Processor i5-7440EQ, DC Input 9~36V Terminal, F/G SYSTEM RoHS                                    |
| <b>KSM190P-KHW36-i5-KLU</b> | 750-K19002-300G | 19" TFT XGA Fanless Panel PC with Projected Capacitive Touch, OSD, Light Sensor, USB, Intel® 7th Core Processor i5-7440EQ, DC Input 9~36V Terminal, F/G SYSTEM RoHS |



## Optional Items

| Optional Items   | Part Number     | Description                                           |
|------------------|-----------------|-------------------------------------------------------|
| Memory           | 138-540002-100G | 4GB DDR4 SODIMM RAM                                   |
|                  | 138-580002-100G | 8GB DDR4 SODIMM RAM                                   |
|                  | 138-5G0161-100G | 16GB DDR4 SODIMM RAM                                  |
| HDD/SSD          | 635-550092-050G | 2.5" SATA HDD, 500GB, RoHS                            |
|                  | 635-500100-200G | 2.5" SATA HDD, 1TB, RoHS                              |
|                  | 635-610002-110G | 2.5" SATA SSD, 1TB MLC, RoHS                          |
|                  | 635-605122-110G | 2.5" SATA SSD, 512GB MLC, RoHS                        |
|                  | 635-602562-120G | 2.5" SATA SSD, 256GB MLC, RoHS                        |
|                  | 635-601282-190G | 2.5" SATA SSD, 128GB MLC, RoHS                        |
|                  | 635-600642-150G | 2.5" SATA SSD, 064GB MLC, RoHS                        |
| Wi-Fi            | 761-110091-000G | Wi-Fi Kit, SparKLAN, WPEA-121N, w/IPX cable & antenna |
|                  | 612-110050-300G | Wi-Fi module, SparKLAN, WPEA-252NI                    |
| Power Cord       | 785-PWRD        | Power Cord, Standards (USA/EUR/CH), 1.8m, RoHS        |
| Power Adapter    | 671-116001-000G | Power Adapter 160W , 19V/8.4A Level 5, RoHS           |
|                  | 671-116003-000G | Power Adapter 160W , 19V/8.4A Level 6, RoHS           |
| Panel Mount Kits | 761-P15002-000G | Panel Mount Kit for PMKS150 RoHS                      |
|                  | 761-P19003-000G | Panel Mount Kit for PMKS190 RoHS                      |
|                  | 761-P15002-000G | KSM150 Panel Mount Kit RoHS                           |
|                  | 761-P19003-000G | KSM170-AL / KSM190-AL Panel Mount Kit RoHS            |
|                  | TBD             | KSM185 Panel Mount Kit RoHS                           |
|                  | 761-KS2150-000G | KSM215-AL Panel Mount Kit RoHS                        |
| Wall Mount       | 761-TPC000-000G | ACCESSORY WALL MOUNT KITS                             |

785-XXX is a group number instead of a unique part number. Please contact your regional sales representative if you need more information.

## Matrix List

|            |      | PMKS150 | PMKS156 | PMKS170 | PMKS185 | PMKS190 | PMKS215 |
|------------|------|---------|---------|---------|---------|---------|---------|
| Box Module | BMAL | V       | V       | V       | V       | V       | V       |
|            | BMSD | V       | V       | V       | V       | V       | V       |
|            | BMKH | V       | V       | V       | V       | V       | V       |

## Packing List

- 1 Single Box
- 1 3 pin Terminal Block Connector
- 2 Mini PCIe Screw
- 1 SATA Screw

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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