



## 6th Gen Intel® Core™ Processor Modular-Designed Industrial Panel PC

### KSM-SD Series

Q170

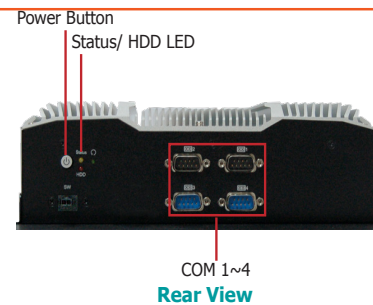
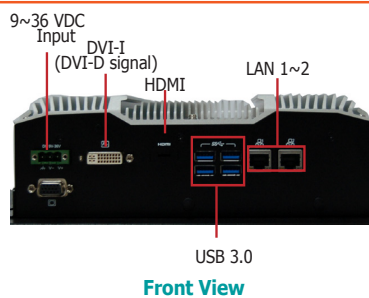


#### ► Features

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



#### ► System





### Standard Ratio Specifications

| Model Name                   |                            | KSM150-SD                                                                                                                                                                                                                                                     | KSM170-SD                                                                                                                                                                                | KSM190-SD         |
|------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 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/m²)         | 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                                                                                                                                                                                                                               |                                                                                                                                                                                          |                   |
| Audio                        | Speaker (Optional)         | TBD                                                                                                                                                                                                                                                           | TBD                                                                                                                                                                                      | TBD               |
| Others                       | Auto Dimming (Optional)    | Light Sensor                                                                                                                                                                                                                                                  |                                                                                                                                                                                          |                   |
| Environment                  | Operating Temperature      | -20 to 70°C                                                                                                                                                                                                                                                   | 0 to 50°C                                                                                                                                                                                | -20 to 70°C       |
|                              | Storage Temperature        | -30 to 70°C                                                                                                                                                                                                                                                   | -20 to 60°C                                                                                                                                                                              | -30 to 85°C       |
|                              | Relative Humidity          | 5 to 90% RH (non-condensing)                                                                                                                                                                                                                                  |                                                                                                                                                                                          |                   |
| SYSTEM                       | Processor                  | 6th Generation Intel® Core™ Processors, LGA 1151 Socket<br>Intel® Core™ i7-6700TE, Quad Core, 8M Cache, 2.4GHz (3.4GHz), 35W<br>Intel® Core™ i5-6500TE, Quad Core, 6M Cache, 2.3GHz (3.3GHz), 35W<br>Intel® Core™ i3-6100TE, Dual Core, 4M Cache, 2.7GHz, 35W |                                                                                                                                                                                          |                   |
|                              | Chipset                    | Intel® Q170 Chipset                                                                                                                                                                                                                                           |                                                                                                                                                                                          |                   |
|                              | Memory                     | Two 260-pin SODIMM up to 32GB                                                                                                                                                                                                                                 | Dual Channel DDR4 1866/2133MHz                                                                                                                                                           |                   |
|                              | BIOS                       | Insyde SPI 128Mbit                                                                                                                                                                                                                                            |                                                                                                                                                                                          |                   |
| GRAPHICS                     | Controller                 | Intel® HD Gen 9 Graphics                                                                                                                                                                                                                                      |                                                                                                                                                                                          |                   |
|                              | Feature                    | OpenGL 5.0, DirectX 12, OpenCL 2.1<br>HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9<br>HW Encode: MPEG2, AVC/H264, JPEG, HEVC/H265, VP8, VP9                                                                                         |                                                                                                                                                                                          |                   |
|                              | Display                    | 1 x VGA<br>1 x DVI (DVI-D signal)<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 or 2560x1600 @ 60Hz<br>DP: resolution up to 4096x2304 @ 60Hz |                   |
|                              | Triple Displays            | VGA + DVI (DVI-D signal) + HDMI<br>VGA + DVI (DVI-D signal) + DP                                                                                                                                                                                              |                                                                                                                                                                                          |                   |
|                              |                            |                                                                                                                                                                                                                                                               |                                                                                                                                                                                          |                   |
| STORAGE                      | Internal                   | 1 x 2.5" SATA 3.0 Drive Bay                                                                                                                                                                                                                                   |                                                                                                                                                                                          |                   |
| EXPANSION                    | Interface                  | 1 x Full-size Mini PCIe (PCIe/USB)<br>1 x Half-size Mini PCIe (USB/mSATA)                                                                                                                                                                                     |                                                                                                                                                                                          |                   |
|                              |                            |                                                                                                                                                                                                                                                               |                                                                                                                                                                                          |                   |
| ETHERNET                     | Controller                 | 1 x Intel® I211AT PCIe (10/100/1000Mbps)<br>1 x Intel® I219V with iAMT11.0 PCIe (10/100/1000Mbps) (only Core i7/i5 supports iAMT)                                                                                                                             |                                                                                                                                                                                          |                   |
| LED                          | Indicators                 | 1 x Power 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)                                                                                                                                                                                    |                                                                                                                                                                                          |                   |
|                              | Buttons                    | 1 x Power Button<br>1 x Reset Button                                                                                                                                                                                                                          |                                                                                                                                                                                          |                   |
| REAR I/O                     | Ethernet                   | 2 x GbE (RJ-45)                                                                                                                                                                                                                                               |                                                                                                                                                                                          |                   |
|                              | USB                        | 4 x USB 3.0 (type A)                                                                                                                                                                                                                                          |                                                                                                                                                                                          |                   |
|                              | Display                    | 1 x DVI (DVI-D signal)<br>1 x HDMI/DP (DP available upon request)                                                                                                                                                                                             |                                                                                                                                                                                          |                   |
| WATCHDOG TIMER               | Output & Interval          | System Reset, Programmable via Software from 1 to 255 Seconds                                                                                                                                                                                                 |                                                                                                                                                                                          |                   |
| POWER                        | Type                       | 9~36 VDC Input                                                                                                                                                                                                                                                |                                                                                                                                                                                          |                   |
|                              | Connector                  | 3-pole Terminal Block                                                                                                                                                                                                                                         |                                                                                                                                                                                          |                   |
| OS SUPPORT                   |                            | Windows 7 (32/64-bit)<br>Windows 10 IoT LTSB RS1 Enterprise (64bit)<br>Linux                                                                                                                                                                                  |                                                                                                                                                                                          |                   |
|                              |                            |                                                                                                                                                                                                                                                               |                                                                                                                                                                                          |                   |
| MECHANISM                    | Construction               | Aluminum + SGCC                                                                                                                                                                                                                                               |                                                                                                                                                                                          |                   |
|                              | IP Rating                  | IP65 Front Panel Protection                                                                                                                                                                                                                                   |                                                                                                                                                                                          |                   |
|                              | 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 Class A, RoHS                                                                                                                                                                                                                                         |                                                                                                                                                                                          |                   |

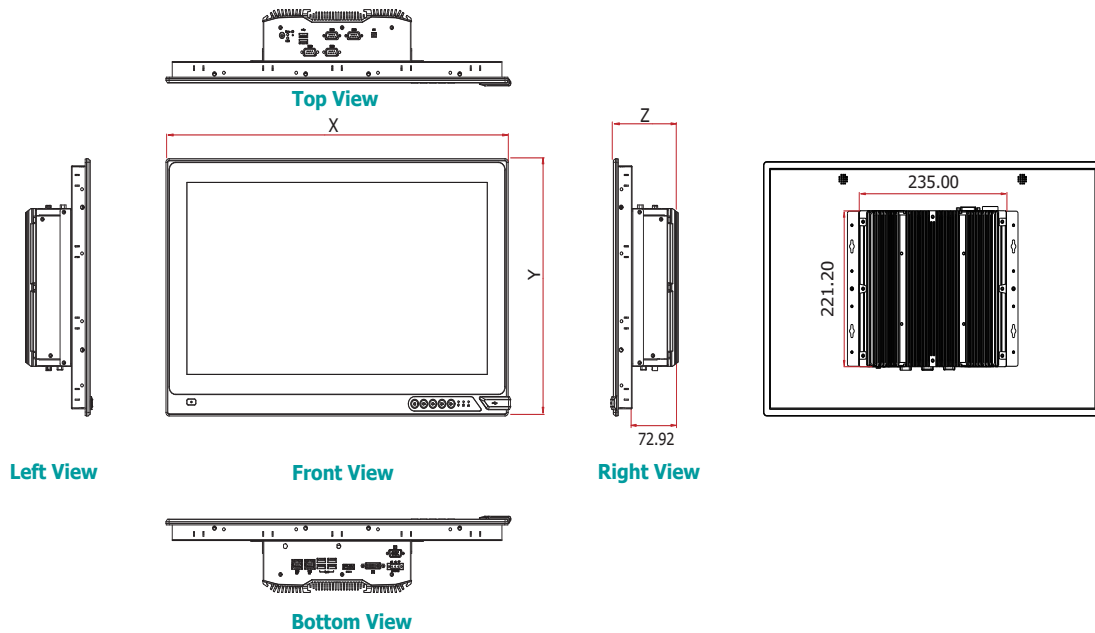


## KSM-SD Series

### Widescreen Ratio Specifications

| Model Name                   |                                 | KSM156-SD                                                                                                                                                                                                                                                                | KSM185-SD                 | KSM215-SD             |
|------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|
| Display & Touch Screen       | Display Type                    | 15.6" TFT LCD Panel                                                                                                                                                                                                                                                      | 18.5" TFT LCD Panel       | 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                                                                                                                                                                                                                                          |                           |                       |
| Audio                        | Speaker (Optional)              | TBD                                                                                                                                                                                                                                                                      | TBD                       | TBD                   |
| Others                       | Auto Dimming (Optional)         | Light Sensor                                                                                                                                                                                                                                                             |                           |                       |
| Environment                  | Operating Temperature           | 0 to 60°C                                                                                                                                                                                                                                                                | 0 to 60°C                 | 0 to 60°C             |
|                              | Storage Temperature             | -20 to 60°C                                                                                                                                                                                                                                                              | -20 to 60°C               | -20 to 60°C           |
|                              | Relative Humidity               | 5 to 90% RH (non-condensing)                                                                                                                                                                                                                                             |                           |                       |
| SYSTEM                       | Processor                       | 6th Generation Intel® Core™ Processors, LGA 1151 Socket<br>Intel® Core™ i7-6700TE, Quad Core, 8M Cache, 2.4GHz (3.4GHz), 35W<br>Intel® Core™ i5-6500TE, Quad Core, 6M Cache, 2.3GHz (3.3GHz), 35W<br>Intel® Core™ i3-6100TE, Dual Core, 4M Cache, 2.7GHz, 35W            |                           |                       |
|                              | Chipset                         | Intel® Q170 Chipset                                                                                                                                                                                                                                                      |                           |                       |
|                              | Memory                          | Two 260-pin SODIMM up to 32GB Dual Channel DDR4 1866/2133MHz                                                                                                                                                                                                             |                           |                       |
|                              | BIOS                            | Insyde SPI 128Mbit                                                                                                                                                                                                                                                       |                           |                       |
|                              | Controller                      | Intel® HD Gen 9 Graphics                                                                                                                                                                                                                                                 |                           |                       |
| GRAPHICS                     | Feature                         | OpenGL 5.0, DirectX 12, OpenCL 2.1<br>HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9<br>HW Encode: MPEG2, AVC/H264, JPEG, HEVC/H265, VP8, VP9                                                                                                    |                           |                       |
|                              | Display                         | 1 x VGA<br>1 x DVI (DVI-D signal)<br>1 x HDMI/DP (DP available upon request)<br>VGA: resolution up to 1920x1200 @ 60Hz<br>DVI: resolution up to 2560x1600 @ 60Hz<br>HDMI: resolution up to 4096x2160 @ 24Hz or 2560x1600 @ 60Hz<br>DP: resolution up to 4096x2304 @ 60Hz |                           |                       |
|                              | Triple Displays                 | VGA + DVI (DVI-D signal) + HDMI<br>VGA + DVI (DVI-D signal) + DP                                                                                                                                                                                                         |                           |                       |
|                              |                                 |                                                                                                                                                                                                                                                                          |                           |                       |
| STORAGE                      | Internal                        | 1 x 2.5" SATA 3.0 Drive Bay                                                                                                                                                                                                                                              |                           |                       |
| EXPANSION                    | Interface                       | 1 x Full-size Mini PCIe (PCIe/USB)<br>1 x Half-size Mini PCIe (USB/mSATA)                                                                                                                                                                                                |                           |                       |
|                              |                                 |                                                                                                                                                                                                                                                                          |                           |                       |
| ETHERNET                     | Controller                      | 1 x Intel® I211AT PCIe (10/100/1000Mbps)<br>1 x Intel® I219V with iAMT11.0 PCIe (10/100/1000Mbps) (only Core i7/i5 supports iAMT)                                                                                                                                        |                           |                       |
| LED                          | Indicators                      | 1 x Power 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)                                                                                                                                                                                               |                           |                       |
|                              | Buttons                         | 1 x Power Button<br>1 x Reset Button                                                                                                                                                                                                                                     |                           |                       |
| REAR I/O                     | Ethernet                        | 2 x GbE (RJ-45)                                                                                                                                                                                                                                                          |                           |                       |
|                              | USB                             | 4 x USB 3.0 (type A)                                                                                                                                                                                                                                                     |                           |                       |
|                              | Display                         | 1 x DVI (DVI-D signal)<br>1 x HDMI/DP (DP available upon request)                                                                                                                                                                                                        |                           |                       |
| WATCHDOG TIMER               | Output & Interval               | System Reset, Programmable via Software from 1 to 255 Seconds                                                                                                                                                                                                            |                           |                       |
| POWER                        | Type                            | 9~36 VDC Input                                                                                                                                                                                                                                                           |                           |                       |
|                              | Connector                       | 3-pole Terminal Block                                                                                                                                                                                                                                                    |                           |                       |
| OS SUPPORT                   |                                 | Windows 7 (32/64-bit) Linux<br>Windows 10 IoT LTSB RS1 Enterprise (64bit)                                                                                                                                                                                                |                           |                       |
| MECHANISM                    | Construction                    | Aluminum + SGCC                                                                                                                                                                                                                                                          |                           |                       |
|                              | IP Rating                       | IP65 Front Panel Protection                                                                                                                                                                                                                                              |                           |                       |
|                              | 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 Class A, 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  | 98    |
| 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-SD 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-SDW36</b>     | 750-K15002-100G | 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-SDW36</b>     | 750-K15002-200G | 15" TFT XGA Fanless Panel PC with Resistive Touch, Intel® 6th Core Processor, DC Input 9~36V Terminal, F/G SYSTEM RoHS                                      |
| <b>KSM150P-SDW36-KLU</b> | 750-K15002-300G | 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>KSM156P-SDW36</b>     | 750-K15602-100G | 15.6" TFT XGA Fanless Panel PC with Projected Capacitive Touch, Intel® 6th Core Processor, DC Input 9~36V Terminal, F/G SYSTEM RoHS                         |
| <b>KSM156R-SDW36</b>     | 750-K15602-200G | 15.6" TFT XGA Fanless Panel PC with Resistive Touch, Intel® 6th Core Processor, DC Input 9~36V Terminal, F/G SYSTEM RoHS                                    |
| <b>KSM156P-SDW36-KLU</b> | 750-K15602-300G | 15.6" 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 |



## Optional Items

| Optional Items          | Part Number     | Description                                                      |
|-------------------------|-----------------|------------------------------------------------------------------|
| <b>CPU</b>              | 143-102402-500G | Intel® Core™ i7-6700TE, Quad Core, 8M Cache, 2.4GHz (3.4GHz);35W |
|                         | 143-102303-500G | Intel® Core™ i5-6500TE, Quad Core, 6M Cache, 2.3GHz (3.3GHz);35W |
|                         | 143-102701-500G | Intel® Core™ i3-6100TE, Dual Core, 4M Cache, 2.7GHz;35W          |
|                         | 143-102401-500G | Intel® Pentium® G4400TE, Dual Core, 3M Cache, 2.4GHz, 35W        |
| <b>Memory</b>           | 138-540002-100G | 4GB DDR4 SODIMM RAM                                              |
|                         | 138-580002-100G | 8GB DDR4 SODIMM RAM                                              |
|                         | 138-5G0161-100G | 16GB DDR4 SODIMM RAM                                             |
| <b>HDD/SSD</b>          | 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                                   |
| <b>mSATA</b>            | 638-712803-100G | mSATA Card, 128GB MLC, RoHS                                      |
|                         | 638-706405-110G | mSATA Card, 64GB MLC, RoHS                                       |
|                         | 638-703206-100G | mSATA Card, 32GB MLC, RoHS                                       |
|                         | 638-701605-130G | mSATA Card, 16GB MLC, RoHS                                       |
|                         | 638-700805-120G | mSATA Card, 8GB MLC, RoHS                                        |
|                         | 638-712803-100G | mSATA Card, 128GB MLC, RoHS (wide temperature)                   |
|                         | 638-706405-110G | mSATA Card, 64GB MLC, RoHS (wide temperature)                    |
|                         | 638-703206-100G | mSATA Card, 32GB MLC, RoHS (wide temperature)                    |
| <b>Wi-Fi</b>            | 761-110091-000G | Wi-Fi Kit, SparkLAN, WPEA-121N, w/IPX cable & antenna            |
|                         | 612-110050-300G | Wi-Fi module, SparkLAN, WPEA-252NI                               |
| <b>Power Cord</b>       | 785-PWRD        | Power Cord, Standards (USA/EUR/CH), 1.8m, RoHS                   |
| <b>Power Adapter</b>    | 671-116001-000G | Power Adapter 160W , 19V/8.4A Level 5, RoHS                      |
|                         | 671-116003-000G | Power Adapter 160W , 19V/8.4A Level 6, RoHS                      |
| <b>Panel Mount Kits</b> | 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                                   |
| <b>Wall Mount</b>       | 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 |
|-------------------|------|---------|---------|---------|---------|---------|---------|
| <b>Box Module</b> | BMAL | V       | V       | V       | V       | V       | V       |
|                   | BM5D | 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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