

# DS-280

## 6th Generation Intel® Core™ i7/i5/i3 OPS Player with Triple 4K Output

**NEW**



### Features

- 6th Intel® Core™ i7-6822EQ/ i5-6442EQ/ i3-6102E/ Celeron-G3902E processor
- Dual channel DDR4-2133 SO-DIMM, up to 32 GB
- 3 independent displays by HDMI 2.0, DP1.2 and rear JAE connector
- Supports Real 4K resolution (4096x2130@60Hz) by front HDMI2.0 & DP1.2
- Supports Microsoft Windows 10 with proven compatibility
- Easy installation and maintenance with Intel® OPS slot-in design

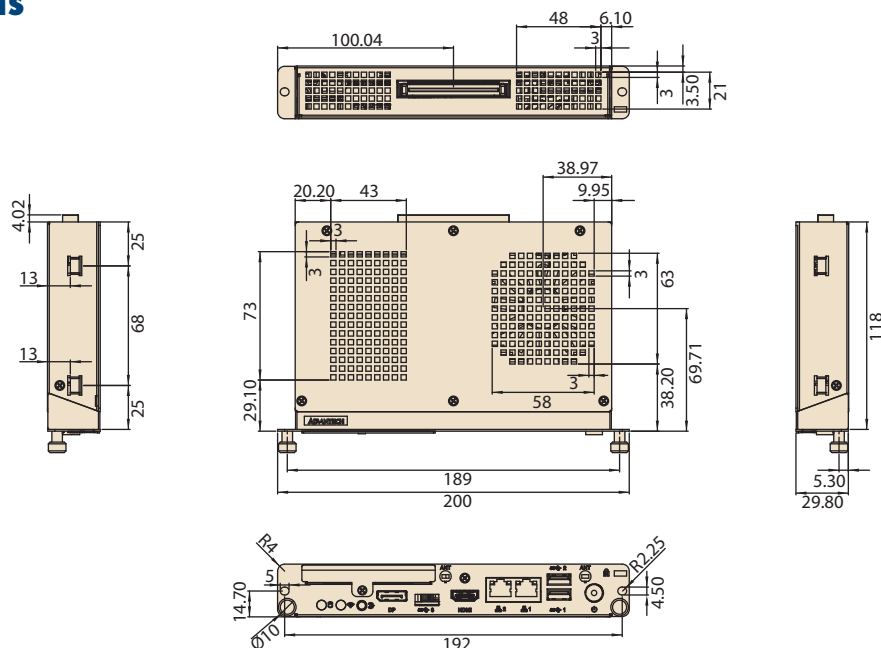
**McAfee** **Acronis** **WISE-PaaS/RMM** **WebAccess/IMM**

### Specifications

|                          |                                       |                                                                                                                    |
|--------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Processor System         | CPU                                   | Intel Core i7-6822EQ/ i5-6442EQ/ i3-6102E/Celeron-G3902E (AMT function supported via i7 or i5 processor)           |
|                          | System Chipset                        | Intel QM170                                                                                                        |
|                          | BIOS                                  | AMI uEFI 128 Mbit                                                                                                  |
| Memory                   | Technology                            | 2 x DDR4 260-pin SODIMM                                                                                            |
|                          | Max. Capacity                         | 32GB (16GB per SODIMM)                                                                                             |
| Display                  | Controller                            | CPU integrated                                                                                                     |
|                          | Graphic Engine                        | Intel HD graphics 530/ Intel HD graphics 510 for Celeron G3902E                                                    |
|                          | Video format                          | H.265/HEVC, H.264/AVC, MPEG2, VC1/WMV9, VP8, JPEG/MJPEG, VP9                                                       |
|                          | Output                                | 1 x HDMI, 1 x DP, 1 x 80-pin JAE connector                                                                         |
|                          | Max. Resolution                       | 4096 x 2160 @ 60Hz                                                                                                 |
| Storage                  | SATA                                  | 1 x 2.5" SATAIII (7mm height only)<br>1 x mSATA via mini-PCIe                                                      |
| I/O Interface            | JAE Connector                         | 1 (JAE TX25A 80-pin, supports HDMI1.4/DP1.2, UART TxRx, 1 x USB3.0, 2 x USB2.0, Audio-out)                         |
|                          | HDMI2.0 (front)                       | 1                                                                                                                  |
|                          | DP1.2 (front)                         | 1                                                                                                                  |
|                          | LAN (RJ-45)                           | 2 (LAN1: Intel I219LM; LAN2: Intel I211), wake on LAN supported                                                    |
|                          | USB                                   | 3 x USB3.0                                                                                                         |
|                          | Audio                                 | 1 x Line-out (Realtek ALC892, High Definition Audio; supports Jack Sense via OS setting)                           |
|                          | Full-size mini-PCIe (Internal)        | 1 (for optional WIFI, 3G, LTE module/ mSATA)                                                                       |
|                          | SIM slot (Internal)                   | 1                                                                                                                  |
| Power Requirement        | Management                            | ACPI 3.0                                                                                                           |
|                          | Power Consumption                     | Max.: 26.12W; Idle: 6.35W (input: 12V DC-in, i7-6822EQ)<br>Max.: 28.80W; Idle: 6.46W (input: 19V DC-in, i7-6822EQ) |
|                          | Input Type                            | ATX/ AT mode                                                                                                       |
|                          | Input Voltage                         | 12V ~ 19V DC-in (via OPS interconnection)                                                                          |
| Watchdog Timer           | Output                                | Interrupt, system reset                                                                                            |
|                          | Interval                              | Programmable 1~255sec. by SUSI4.0 API                                                                              |
| Physical Characteristics | Dimensions (W x H x D)                | 200 x 30 x 119 mm (OPS compliant)                                                                                  |
|                          | Weight                                | 1.5 kg (3.3 lb.)                                                                                                   |
| Environment              | Operating Temperature                 | 0° C ~ 40° C (32~104° F) w/ HDD; 0° C ~ 50° C (32~122° F) w/ SSD                                                   |
|                          | Relative Humidity                     | 95% @ 40° C (non-condensing), Operating                                                                            |
|                          | Vibration Resistance during operating | 0.2Grms, IEC 60068-2-64, random, 5-500 Hz, 1hr/ axis                                                               |
| Software Development Kit | Operating System                      | Windows 10 (64bit), 8.1 (64bit), 7 (64bit/ 32bit), Linux (by project)                                              |
|                          | Signage Software                      | WISE-PaaS/RMM & WebAccess/IMM                                                                                      |
| Certification            | Electromagnetic                       | CE, FCC Class B, CCC, BSMI                                                                                         |
|                          | Safety                                | UL, CB, CCC                                                                                                        |

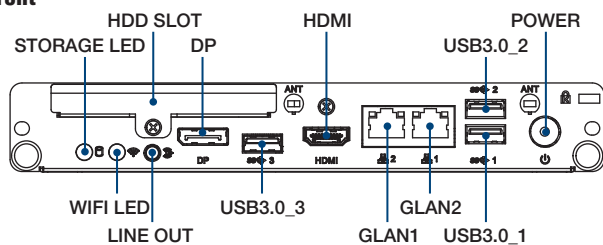
## Dimensions

Unit: mm

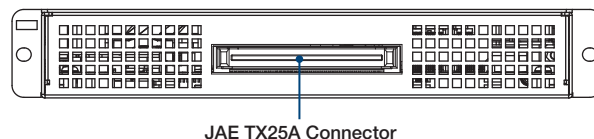


## External I/O

### Front



### Back



## Ordering Information

| Part Number    | Description                           |
|----------------|---------------------------------------|
| DS-280GB-U0A1E | OPS, i7-6822EQ, Barebone              |
| DS-280GB-S9A1E | OPS, i5-6442EQ, Barebone              |
| DS-280GB-S8A1E | OPS, i3-6102E, Barebone               |
| DS-280GB-S6A1E | OPS, Celeron-G3902E, Barebone         |
| DS-280GF-U0A1E | OPS, i7-6822EQ, 4+4GB DDR4, 500GB HDD |
| DS-280GF-S9A1E | OPS, i5-6442EQ, 4+4GB DDR4, 500GB HDD |
| DS-280GF-S8A1E | OPS, i3-6102E, 4+4GB DDR4, 500GB HDD  |

## Packing List

| Part Number | Description                                        |
|-------------|----------------------------------------------------|
| -           | 1x DS-280                                          |
| -           | 1 x Simplified Chinese User Manual                 |
| -           | 1 x Traditional Chinese User Manual                |
| -           | 1 x China RoHS                                     |
| -           | 1 x WebAccess/IMM & WISE-PaaS/RMM installation DVD |

## Optional Items

| Part Number  | Description                                         |
|--------------|-----------------------------------------------------|
| AMO-I013E    | Docking board, JAE TX24A/DC-in Jack/HDMI/DP/USB     |
| AMO-WIFI06E  | Realtek/wifi 802.11bgn/miniPCIe, 1*cable, 1*antenna |
| AMO-HSDPA02E | U-blox/HSDPA 6band/miniPCIe, 2*cable, 2*antenna     |

## Embedded OS

| Part Number | Description                                              |
|-------------|----------------------------------------------------------|
| 2070014944  | img WES7E DS-280 64bit 1701 4MUI                         |
| 2070014945  | img WES7P DS-280 64bit 1701 10MUI                        |
| 2070014943  | img W8.1 IDTP DS-280 64bit V1.1 10MUI                    |
| 2070014948  | img W10 16HL DS-280 64bit 1609 Eng (for Core i7 Sku)     |
| 2070014949  | img W10 16VL DS-280 64bit 1609 Eng (for Core i5/i3 Skus) |