

# DS-330

## Fanless Outdoor System with Intel® Atom® Core™ Processor



### Features

- Intel® Atom™ x7433RE, N97, i3 N305 Processor
- Book-sized Fanless System
- 3 Independent Display: HDMI x 2 + USB-C
- Versatile I/O: 2 x LAN, 4 x USB, 2 x COM
- Suitable for outdoor usage: -20 to 60°C wide temperature and 12-24V wide voltage
- Equipped with firmware TPM (fTPM) by default; discrete TPM 2.0 available as a BOM option based on project request

Trellix Acronis WISE-PaaS/SignageCMS WISE-DeviceOn

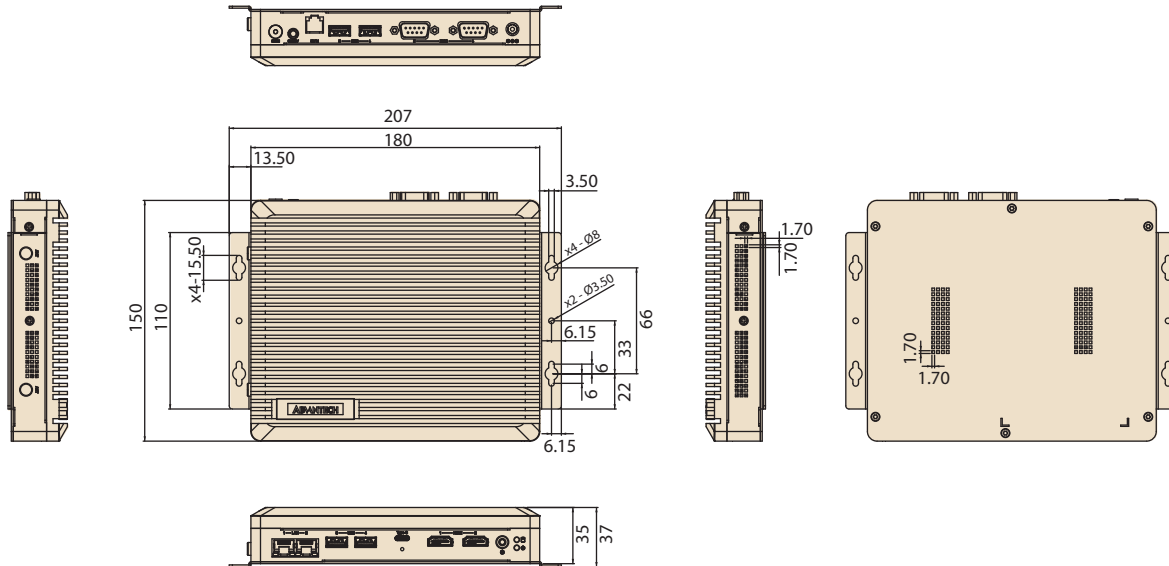
### Specifications

| Model Name               |                                 | DS-3300F-U0A1E                                                                                                                                                                                | DS-3300F-U1A1E                                | DS-3300F-U2A1E                                |
|--------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Processor System         | CPU                             | Intel® Atom™ X7433RE (Alder Lake N)                                                                                                                                                           | Intel® Atom™ N97 (Alder Lake N)               | Intel® Core™ i3-N305 (Alder Lake N)           |
|                          | Frequency                       | 1.5GHz                                                                                                                                                                                        | 2.0GHz                                        | 1.8GHz                                        |
|                          | Max. Frequency                  | 3.4 GHz                                                                                                                                                                                       | 3.60 GHz                                      | 3.80 GHz                                      |
|                          | Core                            | 4                                                                                                                                                                                             | 4                                             | 8                                             |
|                          | CPU TDP                         | 9W                                                                                                                                                                                            | 12W                                           | 15W                                           |
|                          | System Chipset                  | Integrated in CPU                                                                                                                                                                             |                                               |                                               |
| Memory                   | Technology                      | DDR5 4800 MHz SODIMM                                                                                                                                                                          |                                               |                                               |
|                          | Max. Capacity                   | 16GB                                                                                                                                                                                          |                                               |                                               |
|                          | Socket                          | Single Slot                                                                                                                                                                                   |                                               |                                               |
| Thermal Solution         |                                 | Fanless                                                                                                                                                                                       |                                               |                                               |
| Display                  | Graphics Engine                 | Intel UHD graphics                                                                                                                                                                            |                                               |                                               |
|                          | Output                          | HDMI 1 and 2 support up to 4K UHD resolution (HDMI 1 and 2 support HW EDID)<br>USB-C support up to 4K UHD Resolution<br>Supports 2 x 4K UHD and 1 x FHD Resolution in Triple Display scenario |                                               |                                               |
|                          | Max. Resolution (HDMI 2.1 TMDS) | 3840x2160 @60Hz                                                                                                                                                                               |                                               |                                               |
|                          | CEC                             | BOM Option (By project support)                                                                                                                                                               |                                               |                                               |
| I/O Interfaces           | Ethernet                        | 2 x Intel i226IT (2.5GbE)                                                                                                                                                                     |                                               |                                               |
|                          | USB                             | 4 x USB 3.2 Gen1 (Type A), 5V/0.9A<br>1 x USB-C: Support 1 x DP 1.4a 4K 60Hz + 1 x USB 3.2 Gen1, 5V/3A                                                                                        |                                               |                                               |
|                          | Serial Ports                    | 2 x 5V/12V Powered COM (RS-232, DB9), (Setting via jumpers; default: 0V)                                                                                                                      |                                               |                                               |
|                          | Audio                           | 3.5mm Audio Jack for jack sense (Line-in/out or Mic-in)                                                                                                                                       |                                               |                                               |
|                          | Function Port                   | 1 x EDID Reset Button                                                                                                                                                                         |                                               |                                               |
|                          | Other                           | 12V RJ12 for cash drawer                                                                                                                                                                      |                                               |                                               |
|                          | LED Indicators                  | 1 x Power, 1 x Storage Access                                                                                                                                                                 |                                               |                                               |
| Expansion                | M.2                             | 2242 M-Key (SATA/PCIex2)<br>2230 E-Key (PCIe & USB2.0) <sup>#1</sup>                                                                                                                          |                                               |                                               |
|                          |                                 |                                                                                                                                                                                               |                                               |                                               |
| Power Requirement        | Power Management                | ACPI 3.0                                                                                                                                                                                      |                                               |                                               |
|                          | Input Voltage                   | 12 ~ 24V DC-in (ATX/AT mode)                                                                                                                                                                  |                                               |                                               |
| Trusted Platform Module  | TPM2.0                          | fTPM 2.0, Default<br>TPM 2.0 (NPCT764AABYX), BOM option by project support                                                                                                                    |                                               |                                               |
|                          |                                 |                                                                                                                                                                                               |                                               |                                               |
| Watchdog Timer           | Output                          | Interrupt, system reset                                                                                                                                                                       |                                               |                                               |
|                          | Interval                        | 255-level timer interval, setup by software                                                                                                                                                   |                                               |                                               |
| Physical Characteristics | Mounting                        | Wall Mount                                                                                                                                                                                    |                                               |                                               |
|                          | Dimensions (W x D x H)          | 180 x 150 x 35 mm                                                                                                                                                                             |                                               |                                               |
|                          | Weight                          | 1.27kg                                                                                                                                                                                        |                                               |                                               |
| Environment              | Operating Temperature           | -20 ~ 60°C / -4 ~ 140°F (with 0.7m/s air flow)                                                                                                                                                | 0 ~ 60°C / -32 ~ 140°F (with 0.7m/s air flow) | 0 ~ 60°C / -32 ~ 140°F (with 0.7m/s air flow) |
|                          | Relative Humidity               | 95% @ 40°C (non-condensing), operating                                                                                                                                                        |                                               |                                               |
| Operating System         | Operating System                | Windows 11 IoT, Windows 10 IoT                                                                                                                                                                |                                               |                                               |
|                          | Linux                           | supported by project                                                                                                                                                                          |                                               |                                               |
| Certifications           | EMC                             | CE/FCC Class B, BSMI, CCC                                                                                                                                                                     |                                               |                                               |
|                          | Safety                          | UL, CB, BSMI, UKCA, CCC                                                                                                                                                                       |                                               |                                               |

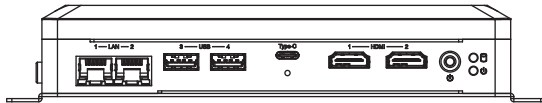
<sup>#1</sup> M.2 E key slot are hardware interfaces for wireless communication integration only. RF Certification is not available.

## Dimensions

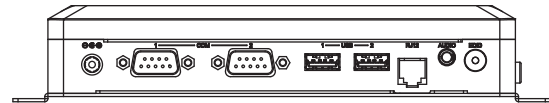
Unit: mm



## Front View

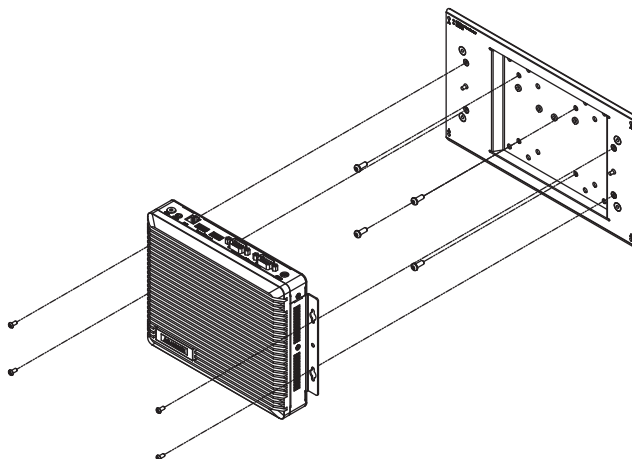


## Rear View

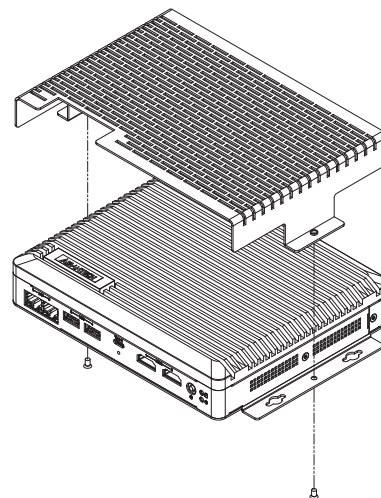


## Installation Scenarios

### VESA Mount



### Protective Cover



## Ordering Information

| Part No.       | CPU     | TDP | RAM        | Display               | LAN                        | USB                                                             | COM (RS-232)              | RJ12     | M.2             | Power Input  | Made In |        |
|----------------|---------|-----|------------|-----------------------|----------------------------|-----------------------------------------------------------------|---------------------------|----------|-----------------|--------------|---------|--------|
| DS-3300F-U0A1E | x7433RE | 9W  | Up to 16GB | 2 x HDMI<br>1 x USB-C | 2 x Intel<br>i226iT (2.5G) | 4 x USB 3.2 Gen 1<br>1 x USB-C: Support DP 1.4a + USB 3.2 Gen 1 | 2 x COM: RS-232 (Powered) | 1 x RJ12 | 1 (SATA/PCIex2) | 12-24V DC-IN | China   |        |
| DS-3300F-U0A1U |         |     |            |                       |                            |                                                                 |                           |          |                 |              | Taiwan  |        |
| DS-3300F-U1A1E | N97     | 12W |            |                       |                            |                                                                 |                           |          |                 |              | China   |        |
| DS-3300F-U1A1U |         |     |            |                       |                            |                                                                 |                           |          |                 |              |         | Taiwan |
| DS-3300F-U2A1E | i3 N305 | 15W |            |                       |                            |                                                                 |                           |          |                 |              |         | China  |
| DS-3300F-U2A1U |         |     |            |                       |                            |                                                                 |                           |          |                 |              |         |        |

Note: RAM / Storage and Operating System bundled by request

## Packing List

| Part Number      | Description                      |
|------------------|----------------------------------|
| -                | 1 x DS-330                       |
| 96PSA-A65W19V1-3 | 1 x 19V Power adapter            |
| 1990023486N001   | 5 x Thermal PAD for CPU/SSD/WIFI |
| 1990025595N000   | 2 x Thermal PAD for Memory       |

## RAM and Storage

| Part Number        | Description                          |
|--------------------|--------------------------------------|
| SQR-SD518G5K6HNGAG | RAM DDR5 4800 8GB W.T.               |
| SQR-SD5116G5K6HNAG | RAM DDR5 4800 16GB W.T.              |
| SQF-C4MV2-128GDEDM | Storage M.2 NVMe 2242 TLC 128GB W.T. |
| SQF-C4MV2-256GDEDM | Storage M.2 NVMe 2242 TLC 256GB W.T. |
| SQF-C4MV2-512GDEDM | Storage M.2 NVMe 2242 TLC 512GB W.T. |
| SQF-C4MV4-1TDEDM   | Storage M.2 NVMe 2242 TLC 1TB W.T.   |
| SQF-S4BV1-128GDSDM | Storage M.2 SATA 2242 TLC 128GB W.T. |
| SQF-S4BV1-256GDSDM | Storage M.2 SATA 2242 TLC 256GB W.T. |
| SQF-S4BV2-512GDSDM | Storage M.2 SATA 2242 TLC 512GB W.T. |
| SQF-S4BV2-1TDSDM   | Storage M.2 SATA 2242 TLC 1TB W.T.   |

Note: RAM and storage listed in the table are wide temp. version. Standard temp. options are also available by request.

## Embedded OS

| Part Number    | Description                  |
|----------------|------------------------------|
| 20706WLE1S0097 | Win11 IoT LTSC EN, 64b Entry |
| TBD            | Win10 IoT LTSC EN, 64b Entry |

## Power Cord

| Part Number   | Description                       |
|---------------|-----------------------------------|
| 1700001524    | 3-pin power cord (US)             |
| 170203183C    | 3-pin power cord (EU)             |
| 170203180A-01 | 3-pin power cord (UK)             |
| 1700008921    | 3-pin power cord with PSE (Japan) |
| 1700019146    | 3-pin power cord (CCC)            |
| 1700018553    | 3-pin power cord (AU)             |
| 1700024849-01 | 3-pin power cord (TW)             |

## Optional Items

| Part Number    | Description                        |
|----------------|------------------------------------|
| 1960056999T301 | DS-330 VESA Mount                  |
| 1960119683N001 | DS-330 Protective Cover            |
| AIW-170BQ-001  | Qualcomm WiFi6E M.2 2230 E key     |
| 1751000648-01  | 1 x Cable Ant. 100mm (usage:2 pcs) |
| AIW-512        | 2 x Antenna                        |

Note: If Wi-Fi is required, the package must include the module, antenna, and antenna cable.

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.