

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

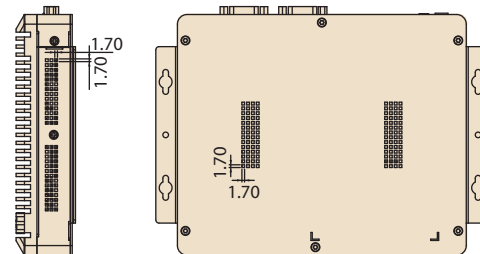
Trellix Acronis WISE-PaaS/SignageCMS WISE-DeviceOn

Specifications

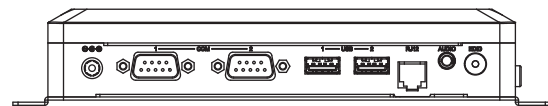
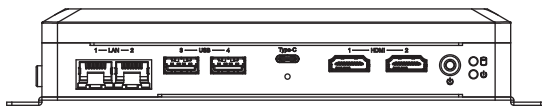
Model Name		DS-3300F-U0A1E	DS-3300F-U1A1E	DS-3300F-U2A1E
Processor System	CPU	Intel® Atom™ X7433RE (Amston Lake)	Intel® Atom™ N97 (Alder Lake N)	Intel® Core™ i3-N305 (Alder Lake N)
	Frequency	1.5GHz	2.0GHz	1.8GHz
	Max. Frequency	3.4 GHz	3.60 GHz	3.80 GHz
	Core	4	4	8
	CPU TDP	9W	12W	15W
	System Chipset	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) USB-C support up to 4K UHD Resolution 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) 1 x USB-C: Support 1 x DP 1.4a 4K 60Hz + 1 x USB 3.2 Gen1		
	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) 2230 E-Key (PCIe & USB2.0)		
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 TPM 2.0 (NPCT64AABYX), 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	2.1kg		
Environment	Operating Temperature	-20 ~ 60°C / -4 ~ 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, UKCA		
	Safety	UL, CB, BSMI		

[illegible]

Unit: mm



Rear View



Part No.	CPU	TDP	RAM	Display	LAN	USB	COM (RS-232)	RJ12	M.2	Power Input	Made In
DS-3300F-U0A1E DS-3300F-U0A1U	x7433RE	9W	Up to 16GB	2 x HDMI 1 x USB-C	2 x Intel i226iT (2.5G)	4 x USB 3.2 Gen 1 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-U1A1E DS-3300F-U1A1U	N97	12W									Taiwan
DS-3300F-U2A1E DS-3300F-U2A1U	i3 N305	15W									China
											Taiwan
											Taiwan

Note: RAM / Storage and Operating System bundled by request

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

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

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)

Part Number	Description
SQR-SD5I8G5K6HNGAG	RAM DDR5 4800 8GB W.T.
SQR-SD5I16G5K6HNAG	RAM DDR5 4800 16GB W.T.
SQR-SD5N8G4K8HNGAG	RAM DDR5 4800 8GB S.T.
SQR-SD5N16G4K8HNAG	RAM DDR5 4800 16GB S.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-C4MV2-128GDEDC	Storage M.2 NVMe 2242 TLC 128GB S.T.
SQF-C4MV2-256GDEDC	Storage M.2 NVMe 2242 TLC 256GB S.T.
SQF-C4MV2-512GDEDC	Storage M.2 NVMe 2242 TLC 512GB S.T.

Note: RAM and Storage support standard and wide temperature.

Part Number	Description
AIW-170BQ-001	Qualcomm WiFi6E M.2 2230 E key
AIW-512	2 x Antenna