

DS-330

Fanless Outdoor System with Intel® Atom® Core™ Processor



Features

- Intel® Atom™ x7000 series, N97, i3 N305, N355 Processor
- Book-sized Fanless System
- 3 Independent Display: HDMI x 2 + USB-C or HDMI x1 + DP x1 + 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

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	SKU 1: 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		
		SKU 2: HDMI x1 + DP x1, support up to 4K UHD resolution USB-C support up to 4K UHD Resolution		
		Supports 2 x 4K UHD and 1 x FHD Resolution in Triple Display scenario		
	Max. Resolution	3840x2160 @60Hz		
I/O Interfaces	CEC	BOM Option (By project support)		
	Ethernet	2 x Intel i226IT (2.5GbE)		
	USB	4 x USB 3.2 Gen1 (Type A), 5V/0.9A 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)		
		2230 E-Key (PCIe & USB2.0) ^{#1}		
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 (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		

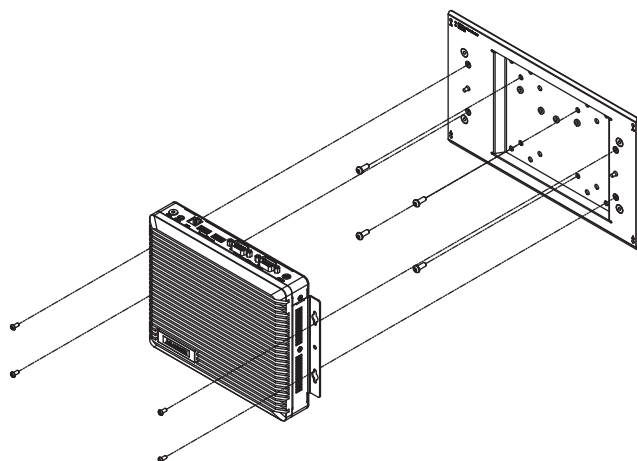
#1 M.2 E key slot are hardware interfaces for wireless communication integration only. RF Certification is not available.

The diagram shows the rear panel of the HP DesignJet Z6800 printer with the following ports and configurations:

- Ports 1-4:** Four RJ45 ports labeled 1, 2, 3, and 4. Ports 1 and 2 are grouped together, as are ports 3 and 4.
- Port 5:** A single RJ45 port labeled 5.
- Port 6:** A single RJ45 port labeled 6.
- Port 7:** A single RJ45 port labeled 7.
- Port 8:** A single RJ45 port labeled 8.
- Port 9:** A single RJ45 port labeled 9.
- Port 10:** A single RJ45 port labeled 10.
- Port 11:** A single RJ45 port labeled 11.
- Port 12:** A single RJ45 port labeled 12.
- Port 13:** A single RJ45 port labeled 13.
- Port 14:** A single RJ45 port labeled 14.
- Port 15:** A single RJ45 port labeled 15.
- Port 16:** A single RJ45 port labeled 16.
- Port 17:** A single RJ45 port labeled 17.
- Port 18:** A single RJ45 port labeled 18.
- Port 19:** A single RJ45 port labeled 19.
- Port 20:** A single RJ45 port labeled 20.
- Port 21:** A single RJ45 port labeled 21.
- Port 22:** A single RJ45 port labeled 22.
- Port 23:** A single RJ45 port labeled 23.
- Port 24:** A single RJ45 port labeled 24.
- Port 25:** A single RJ45 port labeled 25.
- Port 26:** A single RJ45 port labeled 26.
- Port 27:** A single RJ45 port labeled 27.
- Port 28:** A single RJ45 port labeled 28.
- Port 29:** A single RJ45 port labeled 29.
- Port 30:** A single RJ45 port labeled 30.
- Port 31:** A single RJ45 port labeled 31.
- Port 32:** A single RJ45 port labeled 32.
- Port 33:** A single RJ45 port labeled 33.
- Port 34:** A single RJ45 port labeled 34.
- Port 35:** A single RJ45 port labeled 35.
- Port 36:** A single RJ45 port labeled 36.
- Port 37:** A single RJ45 port labeled 37.
- Port 38:** A single RJ45 port labeled 38.
- Port 39:** A single RJ45 port labeled 39.
- Port 40:** A single RJ45 port labeled 40.
- Port 41:** A single RJ45 port labeled 41.
- Port 42:** A single RJ45 port labeled 42.
- Port 43:** A single RJ45 port labeled 43.
- Port 44:** A single RJ45 port labeled 44.
- Port 45:** A single RJ45 port labeled 45.
- Port 46:** A single RJ45 port labeled 46.
- Port 47:** A single RJ45 port labeled 47.
- Port 48:** A single RJ45 port labeled 48.
- Port 49:** A single RJ45 port labeled 49.
- Port 50:** A single RJ45 port labeled 50.
- Port 51:** A single RJ45 port labeled 51.
- Port 52:** A single RJ45 port labeled 52.
- Port 53:** A single RJ45 port labeled 53.
- Port 54:** A single RJ45 port labeled 54.
- Port 55:** A single RJ45 port labeled 55.
- Port 56:** A single RJ45 port labeled 56.
- Port 57:** A single RJ45 port labeled 57.
- Port 58:** A single RJ45 port labeled 58.
- Port 59:** A single RJ45 port labeled 59.
- Port 60:** A single RJ45 port labeled 60.
- Port 61:** A single RJ45 port labeled 61.
- Port 62:** A single RJ45 port labeled 62.
- Port 63:** A single RJ45 port labeled 63.
- Port 64:** A single RJ45 port labeled 64.
- Port 65:** A single RJ45 port labeled 65.
- Port 66:** A single RJ45 port labeled 66.
- Port 67:** A single RJ45 port labeled 67.
- Port 68:** A single RJ45 port labeled 68.
- Port 69:** A single RJ45 port labeled 69.
- Port 70:** A single RJ45 port labeled 70.
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- Port 73:** A single RJ45 port labeled 73.
- Port 74:** A single RJ45 port labeled 74.
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- Port 76:** A single RJ45 port labeled 76.
- Port 77:** A single RJ45 port labeled 77.
- Port 78:** A single RJ45 port labeled 78.
- Port 79:** A single RJ45 port labeled 79.
- Port 80:** A single RJ45 port labeled 80.
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- Port 82:** A single RJ45 port labeled 82.
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- Port 85:** A single RJ45 port labeled 85.
- Port 86:** A single RJ45 port labeled 86.
- Port 87:** A single RJ45 port labeled 87.
- Port 88:** A single RJ45 port labeled 88.
- Port 89:** A single RJ45 port labeled 89.
- Port 90:** A single RJ45 port labeled 90.
- Port 91:** A single RJ45 port labeled 91.
- Port 92:** A single RJ45 port labeled 92.
- Port 93:** A single RJ45 port labeled 93.
- Port 94:** A single RJ45 port labeled 94.
- Port 95:** A single RJ45 port labeled 95.
- Port 96:** A single RJ45 port labeled 96.
- Port 97:** A single RJ45 port labeled 97.
- Port 98:** A single RJ45 port labeled 98.
- Port 99:** A single RJ45 port labeled 99.
- Port 100:** A single RJ45 port labeled 100.

The diagram shows the rear panel of the HP DesignJet 1045C printer. From left to right, the components are: a power button, a power jack, a serial port (labeled 'SERIAL'), a parallel port (labeled 'PARALLEL'), a USB port (labeled 'USB'), a network port (labeled 'RJ45'), an audio port (labeled 'AUDIO'), and a volume knob (labeled 'VOLUME').

VESA Mount



Ordering Information

Part No.	CPU	TDP	RAM	Display	LAN	USB	COM (RS-232)	RJ12	M.2	Power Input	TPM 2.0	Made In
DS-3300F-U0A1E	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	N	China
DS-3300F-U0A1U											N	Taiwan
DS-3300F-U1A1E	N97	12W									N	China
DS-3300F-U1A1U											N	Taiwan
DS-3300F-U1A2E	i3 N305	15W									Y	China
DS-3300F-U2A1E											N	China
DS-3300F-U2A1U											N	Taiwan

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

Embedded OS

Part Number	Description
20706WLE1S0142	Win11 IoT LTSC EN, 64b Entry
20706WX1ES0159	Win10 IoT LTSC EN, 64b Entry
20706U24DS0041	Ubuntu Desktop 64b 24.04
20706U24ES0006	Ubuntu Pro 64b 24.04

RAM and Storage

Part Number	Description
SQR-SD5I8G5K6SNGPB	RAM DDR5 4800 8GB W.T. (Samsung)
SQR-SD5I16G5K6SNPB	RAM DDR5 4800 16GB W.T. (Samsung)
SQR-SD5I16G5K6HNAG	RAM DDR5 4800 8GB W.T. (Hynix)
SQR-SD5I32G5K6HNAG	RAM DDR5 4800 16GB W.T. (Hynix)
SMI-SD5V8GN56-CC	Semi Ind DDR5 5600 8GB, 0~85°C (Apacer)
SMI-SD5V16GN56-CB	Semi Ind DDR5 5600 16GB, 0~85°C (Apacer)
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-C4MV4-1TDSDM	Storage M.2 NVMe 2242 TLC 1TB W.T.
SQF-S4BV1-128GSDSM	Storage M.2 SATA 2242 TLC 128GB W.T.
SQF-S4BV1-256GSDSM	Storage M.2 SATA 2242 TLC 256GB W.T.
SQF-S4BV2-512GSDSM	Storage M.2 SATA 2242 TLC 512GB W.T.
SQF-S4BV2-1TDSM	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.

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
AMK-V025E	DS-330 Mounting Kit (VESA/Pole Mount Bracket/Adapter Kit)
AMK-V027E	DS-330 Protective Cover
AIW-170BQ-001	Qualcomm WiFi6E M.2 2230 E key
1751000648-01	1 x Cable Ant. 100mm (2 pcs/unit); order in multiples of 2
AIW-512	2 x Antenna

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