

DS-540

The Next-Generation KDS Box PC with Intel® Processor



Features

- Intel® Processor N150 (Twin Lake)
- Fanless Kitchen Display System Box PC
- 3 Independent Display: HDMI + USB-C + VGA
- Versatile I/O: 1 x LAN, 4 x USB, 2 x COM
- Suitable for No outdoor: 0 to 60°C operating 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
- USB-C with DP Alt Mode and USB Data(One-Cable Solution)

WISE-PaaS/SignageCMS WISE-DeviceOn

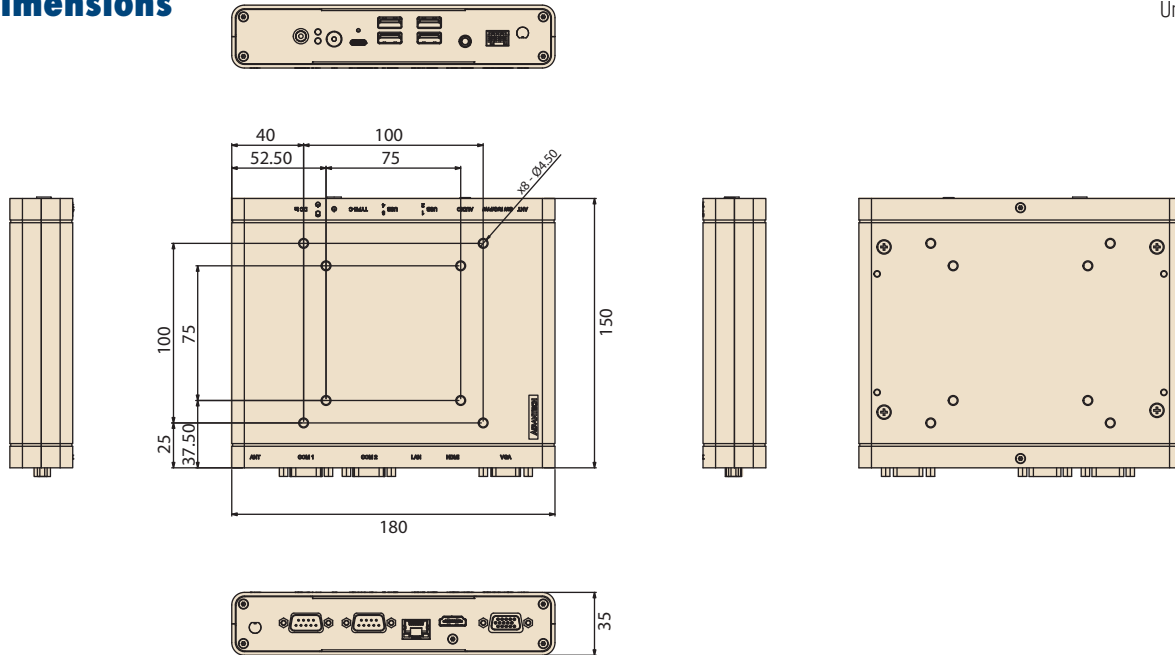
Ubuntu Windows 11

Specifications

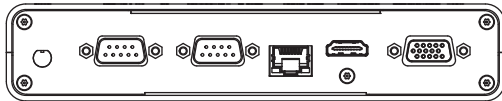
Model Name	DS-5400F-U0A1E	
Processor System	CPU	Intel® Processor N150(Twin Lake)
	Frequency	1.5GHz
	Max. Frequency	3.6 GHz
	Core	4
	CPU TDP	6W
	System Chipset	Integrated in CPU
Memory	Technology	DDR5 4800Mhz
	Max. Capacity	16GB
	Socket	Single Slot Pin-262 SO-DIMM
Thermal Solution	Fanless	
Display	Graphics Engine	Intel® UHD Graphics
	HDMI Port	1 x HDMI 2.1 (TMDS), up to 3840 × 2160 @ 60 Hz
	USB-C Port	1 x USB Type-C (DP Alt Mode), up to 3840 × 2160 @ 60 Hz
	VGA Port	1 x VGA, up to 1920 × 1200 @ 60 Hz (WUXGA)
	Multi-Display Support	Supports 3 independent displays (HDMI + USB Type-C + VGA)
	CEC	BOM Option (By project support)
I/O Interfaces	Ethernet	1 x RTL8125K-CG (2.5GbE)
	USB	4 x USB 3.2 Gen 2 , 5V/0.9A 1 x USB-C: Support 1 x DP 1.4a 4K 60Hz + 1 x USB 3.2 Gen2, 5V/3A
	Serial Ports	2 x 5V/12V Powered COM (RS-232, DB9), (Setting via jumpers; default: 0V)
	Audio	3.5mm Audio Jack with jack detection (Line-in/out or Mic-in)
	Remote Switch	1x (Reset, Ground, Power on, and Watchdog output signal)
	LED Indicators	1 x Power, 1 x Storage Access
Expansion	M.2	M.2 2242 M-Key (SATA/PCIe)
		M.2 2230 E-Key for Wi-Fi/Bluetooth Module
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/VESA Mount
	Dimensions (W x D x H)	180 x 150 x 35 mm
	Weight	1.2kg
Environment	Operating Temperature	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
	Linux	ubuntu 24.04
Certifications	EMC	CE/FCC Class B, BSMI, CCC
	Safety	UL, CB, BSMI, UKCA, CCC

Dimensions

Unit: mm



Front View

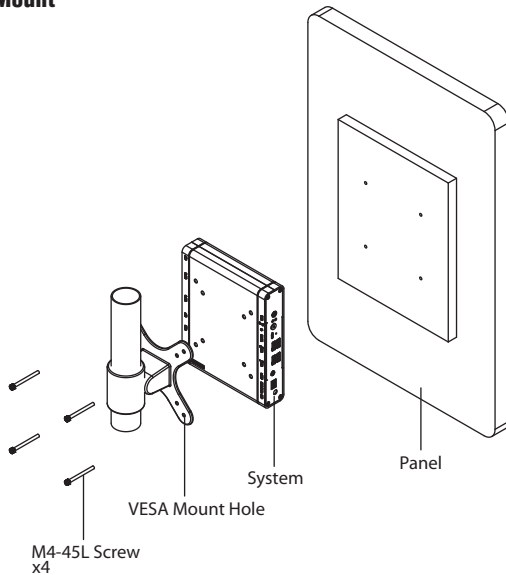


Rear View



VESA Through-Hole Mount

VESA Mount



Ordering Information

Part No.	CPU	TDP	RAM	Display	LAN	USB	COM (RS-232)	M.2	Power Input	TPM 2.0	Made In
DS-5400F-U0A1E	N150	6W	Up to 16GB	1 x HDMI 1 x USB-C 1 x VGA	1 x RTL8125K-CG (2.5G)	4 x USB 3.2 Gen 2 1 x USB-C: Support DP 1.4a + USB 3.2 Gen 2	2 x COM: RS-232 (Powered)	1 (SATA/PCIex2)	12-24V DC-IN	N	China
DS-5400F-U0A1U										N	Taiwan

Note: RAM / Storage and Operating System bundled by request

Packing List

Part Number	Description
-	1 x DS-540
96PSA-A65W19V1-5	1 x 19V Power adapter
1930008874	M4-45L Screw x4

RAM and Storage

Part Number	Description
SQR-SD5N16G5K6SNPB	262pin SODIMM DDR5 5600 16G (Samsung)
SMI-SD5V16GN56-CB	Semi Ind DDR5 5600 16GB 0 ~ 60°C
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-S4BV1-128GSDSDM	Storage M.2 SATA 2242 TLC 128GB W.T.
SQF-S4BV1-256GSDSDM	Storage M.2 SATA 2242 TLC 256GB W.T.
SQF-S4BV2-512GSDSDM	Storage M.2 SATA 2242 TLC 512GB W.T.
SQF-S4BV2-1TDSDM	Storage M.2 SATA 2242 TLC 1TB W.T.
SQR-SD5N16G4K8HNAG	262pin SODIMM DDR5 4800 16G 1.1V 2Gx8 (0~95°C)

Embedded OS

Part Number	Description
20706WLE1S0157	Win11 IoT LTSC EN, 64b Entry
20706U24DS0062	Ubuntu Desktop 64b 24.04
20706U24ES0024	Ubuntu Pro 64b 24.04

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-540 VESA Mount
EWM-W179M201E	Wi-Fi 6 (IEEE 802.11ax, 2.4GHz/5GHz) + Bluetooth
1751000648-01	1 x Cable Ant. 100mm (usage:1 pcs)
1751000635-01	1 x Cable Ant. 200mm (usage:1 pcs)
1751000460-01	2 x Antenna

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