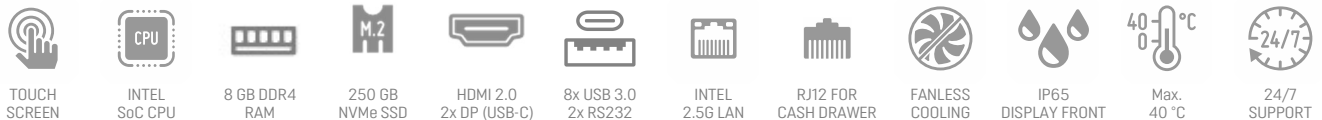


15.6" POS SYSTEM PS15AL1

Intel N97 | 8 GB RAM | 256 GB SSD
Compatible with Windows 11 & Linux

VERSATILE AND APPEALING 15.6" POS PC WITH TOUCHSCREEN

The Shuttle POS System PS15AL1 is a robust, compact and customisable platform for modern point-of-sale systems. With its flexible folding mechanism, the main display can be adjusted to any angle from 0 to 90 degrees and can be optionally expanded to include a 10.1-inch customer display. The elegant stand integrates powerful hardware with numerous discreetly concealed connections and ensures stability even with intensive use. Thanks to passive cooling, the system is virtually noiseless, maintenance-free and perfectly designed for 24/7 continuous operation. Set up your preferred POS software and benefit from maximum ergonomics, reliability and a professional presentation – with the Shuttle POS system PS15AL1.



COMMON FEATURES

- IP65 compliant front panel ■ Dimensions: 379 x 190.7 x 317.4 mm (WDH) ■ Supports 24/7 Nonstop Operation ■ 75x75 mm VESA mount capable ■ Operating temperature: 0~40 °C (20-85% RH) ■ Fanless cooling ■ Foldable design, display tilt angle: 0-90°

DISPLAY & GRAPHICS

- 39.6 cm (15.6") LC Display, 1366 x 768 pixel resolution, 220 Nits ■ Capacitive 10-point multi-touch ■ Integrated Intel UHD graphics ■ HDMI 2.0 & 2x DisplayPort (via USB-C), max. 2 external displays

OPERATING SYSTEM

- An operating system is not included
 - Supports Windows 10/11 (64-bit) and Linux (64-bit)
- Windows driver download: <http://go.shuttle.eu/PS15AL1>

PROCESSOR

- Intel N97 SoC processor, 4 Cores, max. 3.6 GHz, 6 MB Cache
- Intel Core Generation 12 "Alder Lake-N" TDP: 12 W

STORAGE/RAM

- 8 GB DDR4-3200 SDRAM (SO-DIMM)
- 256 GB M.2 SSD supports PCIe/NVMe

CONNECTIVITY

- HDMI 2.0 ■ 2x USB 3.2 Gen 1 Type-C supports DisplayPort and PD
- 6x USB 3.2 Gen 1 Type-A ■ 1x RJ45 2.5G LAN (Intel i226V)
- 2x RJ50 RS232 COM port (incl. one DB9 adapter cable)
- 1x RJ12 port supports 24V DC Cash Drawer ■ 1x Audio Combo port (Line-out / Mic-input) ■ Power button ■ Power LED ■ DC Input

Other

- 2W Speaker (Mono)

POWER SUPPLY

- External 65 W / 19 V power adapter ■ DC-in supports 12-24 V

OPTIONAL ACCESSORIES

- **DIS10A:** Integrated 10.1" Customer Display, resolution: 1024 x 600 pixels, Brightness: 350 Nits, without touch function, USB interface

Caution: Only appropriately trained persons may open the PC housing!



PRODUCT FEATURES



All applications at your fingertips - 10-point multi-touch

The innovative touchscreen technology delivers the simplest operation possible and makes the screen the centre of action. Its high-quality design lets you control the whole range of multimedia - music, movies, video playback and web browsers start by just touching the screen.



24/7 nonstop operation

The Shuttle POS System PS15AL1 is officially approved for 24/7 permanent operation. Thanks to its low power consumption and completely passive cooling, this PC runs highly reliable making it perfectly suitable for POS applications.



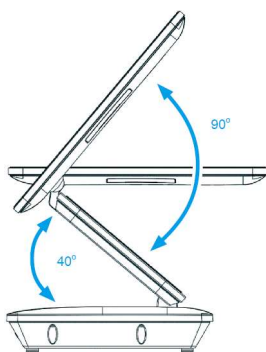
Fanless and quiet

The Shuttle POS System PS15AL1 uses a passive thermal module to lead heat out of the case quickly and evenly. The fanless design makes it perfect to be used in noise-sensitive environments. As an additional benefit, fanless cases rarely gather dust on the inside and stay cleaner than others. So it's not only quiet and low in energy use, but also virtually maintenance-free.



Protection Class IP65

The front panel is dust-protected and protected from splashing of water according to IP protection class 65. Consequently, this All-in-One PC can be used for those indoor applications, where the touchscreen may be exposed to humidity and occasional splashing of water.



Sophisticated foldable design

The POS system is based on a modular, foldable design consisting of a box PC as a stand and a display, which are connected by a robust arm with two hinges. The tilt angle for the display can be positioned between 0-90°.



Optimised Cable Management

A plastic cover conceals the I/O ports making for a clean, tidy appearance on the desk. The POS system can be reliably installed on a surface using screws.



Connects up to two displays

The Shuttle POS System PS15AL1 features three video outputs: one HDMI 2.0 port and two DisplayPorts via USB-C, which even supports UHD/4K resolution. Two separate displays can be connected in extended mode. Now add the built-in display of POS-System and there are three displays showing different content.



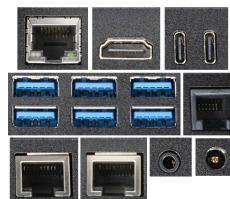
Optional Customer Display

An integrated 10.1" customer display can be added with the optional DIS10A accessory. Installation is very simple and no cable is visible.



RJ12 Port for Cash Drawer

The existing RJ12 Digital I/O port allows the control of cash drawers with a 24V DC signal together with the supplied Windows OPOS driver.



Plenty of connections

The Shuttle POS system PS15AL1 offers the connectivity of a modern PC including 2.5G LAN, 8x USB 3.2, three graphics ports and audio. In addition, there are also two serial RS232 ports and a RJ12 DIO port, which are particularly useful for POS applications.

Product Views

Front view



Side view



Bottom side



1. 15.6" Touch Display
2. Power Button
3. Power LED
4. Arm holder with two hinges
5. BoxPC that also serves as a stand

6. Threads for 75x75 mm VESA mount
7. Strain relief for cables
8. Rating label

Back side

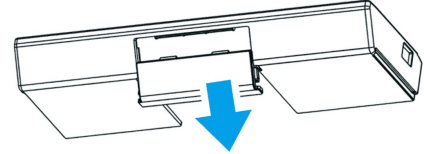


9. RJ45 2.5G LAN Port
10. HDMI 2.0
11. 2x RJ50 RS232 COM Port
12. 1x DB9 adapter cable for COM port included
13. 6x USB 3.2 Gen 1 Type-A
14. 2x USB 3.2 Gen 1 Type-C with DisplayPort-function
15. Audio Combo Port 3.5mm (Mic-in and Line-out)
16. DC Input (12-24 V)
17. RJ12 port for Cash Drawer (24V signal)

Optimized Cable Management



The **two-part cable cover** making for a clean, tidy appearance on the desk.



The cables can be **routed to the back or downwards**.

The POS system can be **reliably mounted on a surface** with four screws (according to 75x75 mm VESA standard with M4 screws).

Optional Customer Display

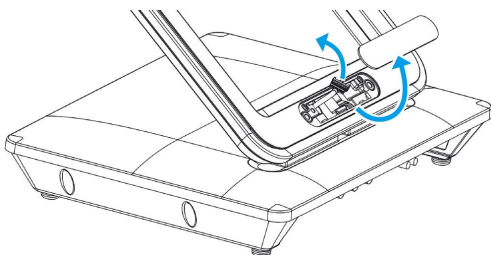
The optional shuttle accessory "DIS10A" is an integrated customer display that is designed to match the PS15AL1 POS system and comes with hidden cable routing.

Specification: screen size: 10.1", resolution: 1024 x 600 pixels, brightness: 350 Nits (typ.), without touch funktion, USB interface

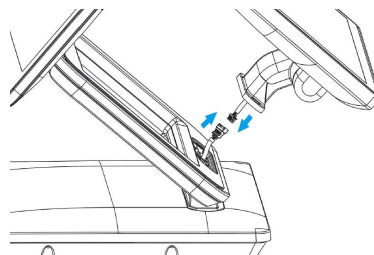


Easy to install:

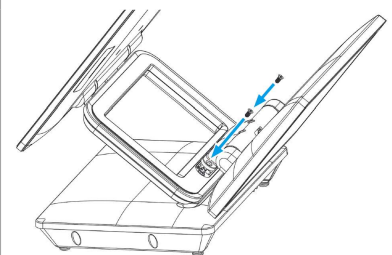
1. Please install 2nd display USB driver before using for installation.
2. Peel off the decoration plate from the device and pull out the connector from the device.



3. Adjust the hinge of the customer monitor (2nd display), and then connect to the device as shown below.



4. Mount the customer display to the device and tighten the two M3 screws as shown below.



SHUTTLE POS System PS15AL1 — SPECIFICATIONS

FANLESS AND SILENT	Passive heatpipe cooling, no fan noise at all Perfect to be used in noise-sensitive environments Fanless, dust-free and thus virtually maintenance-free
24/7 NONSTOP OPERATION	This device is approved for 24/7 permanent operation. Requirements: free circulation of air amongst the PC must be guaranteed.
IP65 PROTECTED	The front of the display is protected from dust and jets of water according to protection class IP65.
CHASSIS	Colour: black Material: die-cast Aluminum alloy, SECC, Plastic Dimensions: 379 x 190.7 x 317.4 mm (W x D x H) 75x75 mm VESA mounting available on the underside Weight: 4.3 kg net, 6.1 kg gross Supplied two-part cover for the I/O connection area on the back
OPERATING SYSTEM	This system comes without operating system. It is compatible with: - Windows 11 - 64-bit - Linux - 64-bit
15.6" DISPLAY	39.6 cm / 15.6" LC-display, ratio: 16:9 wide-screen panel, bezel-free Resolution: 1366 x 768 = 1.05 Megapixel Luminance: 220 cd/sqm (Nits)
TOUCHSCREEN	Touchscreen function supports fingertip input Projected Capacitive Touch Panel with 10-point multi-touch
PROCESSOR	Model: Intel® Processor N97 Code name: "Alder Lake-N" (Intel Core Gen 12) Max. Turbo clock frequency: 3.6 GHz CPU cores / Threads: 4 / 4 Intel Smart Cache: 6 MB Thermal Design Power (TDP): 12 W System-on-Chip processor (SoC) with integrated graphics processor Lithographie: Intel 7 (10 nm structure) FCBGA1264 package (soldered)
INTEGRATED GRAPHICS	Intel UHD Graphics GPU clock frequency: max. 1200 MHz Execution Units (EUs): 24
SUPPORTS TRIPLE DISPLAY	The device has three video outputs, supporting up to two additional independent screens: 1x HDMI 2.0 2x USB-C with DisplayPort function In addition, an optional integrated customer display (accessory DIS10A) can be fitted, which is connected via a USB interface.
BIOS	AMI uEFI BIOS SPI-Schnittstelle 32 MB Flash EPROM Supports Power fail resume (see in BIOS under "Power Plan After G3" - settings: On, Off, Last Setting) Supports Wake-on-LAN (WOL)
H/W TPM MODULE	Supports Hardware TPM v2.0 (IC: Infineon SLB9672VU2)
MEMORY (RAM)	8 GB DDR4-3200 SDRAM 1x SO-DIMM socket Supported maximum size: 16 GB
M.2 SSD CARD	256 GB M.2-2280 SSD card supports NVMe M.2 slot with PCIe Gen3 x2 interface
WIRED NETWORK	Intel i226V 2,5G Ethernet Controller Supports 10 / 100 / 1.000 / 2.500 MBit/s operation Supports WAKE ON LAN (WOL)
SPEAKER	Internal speaker 2 Watt, mono
FRONT BUTTON AND LED	- Power on/off button - Power LED (blue)

CONNECTORS	1x HDMI 2.0 2x USB 3.2 Gen 1 type-C with DisplayPort and PD function 6x USB 3.2 Gen 2 type-A (blue) 1x RJ45 2.5G LAN port (Intel i226V / max. 2.5 Gbps) 2x RJ50 RS232 COM port (RI/5V/12V select by BIOS), 1x DB9 adapter cable incl. 1x RJ12 port supports 24V DC Cash Drawer 1x Audio Combo port with Line-out / Microphone input (3.5 mm jack, 4-pin) 1x DC input for external power adapter (5.5 / 2.5 mm, supports 12-24V)
POWER ADAPTER	External 65 W power adapter (fanless) Input: 100~240 V AC, 50/60 Hz, max. 1.6 A Output: 19 V DC, max. 3.42 A, max. 65 W DC cable length: ca. 170 cm AC cable length: ca. 170 cm (3-pin Micky MM C6 and Schuko earthed safety plug)
DC INPUT CONNECTOR	DC Input Connector: 5.5 / 2.5 mm (outer/inner diameter) The DC input on the POS system supports 12-24 V input voltage
SUPPLIED ACCESSORIES	- Quick Installation Guide - External Power Adapter (65W / 19V) - AC Power cord with protective-earth contacts - COM port adapter cable (RJ50 to DB9, length: 60 cm) - Back Panel I/O Cover (two plastic parts)
DRIVER DOWNLOAD	Windows 11 Device Driver and Docs please download here: http://go.shuttle.eu/PS15AL1
OPTIONAL ACCESSORIES	DIS10A: 2nd Display (Integrated Customer Display) Screen size: 10.1", Resolution: 1024 x 600 pixels, Brightness: 350 Nits (typ.), without touch function, USB interface Please install 2nd display USB driver before using for installation.
ENVIRONMENTAL SPECIFICATIONS	Operating temperature: 0 - 40 °C (32-104 °F) Storage temperature: -20 - 60 °C (-4 - 140 °F) Humidity: 20 - 85 %, non-condensing
CERTIFICATIONS / COMPLIANCE	EMI: CE, FCC Safety: CB (IEC 62368-1:2014)
CONFORMITY	This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU directives: (1) 2014/30/EU relating to electromagnetic compatibility (EMC) (2) 2014/35/EU relating to Electrical Equipment designed for use within certain voltage limits (LVD) (3) 2009/125/EC relating to eco design requirements for energy-related products (ErP)

Caution: Only appropriately trained persons may open the PC housing!

SHUTTLE POS System PS15AL1 – Technical Drawings

