Panel-PC Barebone
M15AL11-i5 White
Intel Core i5-1335 ULV CPU

MEDICAL-GRADE PANEL PC WITH 15.6" TOUCH-DISPLAY

This high-value Panel PC comes features a rugged Aluminium chassis with an anti-bacterial coating and IP65-rated front panel for superior hygiene and infection control. It is powered by an Intel Core Gen13 processor and the Full-HD display sports a projected capacitive 10-point multi-touch function. With its passive cooling the system is virtually noiseless, maintenance-free and approved for 24/7 nonstop operation. Compliant with IEC 60601-1 medical safety standards for electrical devices, this Panel PC is built for reliable operation in a wide range of healthcare environments.





Images for illustration only.

15.6" Touch Display · Anti-Bacterial Housing · 2x 32 GB Support · NVMe SSD Support · WLAN/BT Ext. Antennas · 2x HDMI 2.0b · 4x USB 3.2 4x USB 2.0 · Serial Port · 100 x 100 mm VESA mount · Fanless · IP65 (Front) · 24/7 Support

ROBUST CHASSIS

■ Robust Aluminium chassis (3 mm thickness) with magnetic cover for the I/O connectors ■ IP65 front panel protection ■ Dimensions (WHD): 394.3 x 256.2 x 48.9 mm ■ Net weight: 4.6 kg ■ Fanless cooling system ■ Operating temperature: 0 ~ 40 °C ■ Humidity: 20 ~ 80% RH non-condensing ■ Mounting holes for 100 x 100 mm VESA mount (VESA mount and stand are not included)

MEDICAL-GRADE FEATURES

■ Anti-bacterial coating based on an inorganic zinc compound (front panel) and epoxy/polyester resin (rear chassis) ■ Medical power adapter (90 W) ■ Potential equalization pin (POAG) ■ Medical certificates: CE EN60601-1-2:2015+A1:2021, FCC Part 18, cTUVus(ANSI/AAMI ES60601-1:2005/A2:2021), CB(IEC 60601-1:2005/AMD2:2020)

TOUCH DISPLAY

■ High quality 15.6" / 39.6cm display with 1920x1080 pixels ■ Brightness: 350 cd/m2, Contrast ratio 1000:1, Viewing angle: 89° (all directions) ■ Capacitive touch panel with 10-point multi-touch
■ Supports two additional displays with HDMI 2.0b and VGA ports

OPERATING SYSTEM

■ An operating system is not included.
■ Supports Windows 11 and Linux (64-bit)

PROCESSOR & GRAPHICS

■ Intel Core i5-1335U, 2 P-Cores, 8 E-Cores, 12 MB Cache
■ "Raptor Lake" ULV Prozessor (Gen 13), 15 W TDP
■ Integrated Intel® Iris® Xe graphics

MEMORY/STORAGE (not included)

■ RAM: 2x 262-pin SO-DIMM slot supports up to 2x 32 GB DDR5-5200
■ M.2-SSD card: M.2-2280/2242 M slot supports PCIe/NVMe and SATA

BACK PANEL CONNECTORS

■ 2x HDMI 2.0b ■ 4x USB 3.2 Gen 2 ■ 4x USB 2.0
■ 2x 2.5 Gbps LAN (Intel i226LM + i226V) ■ COM Port (RS232)
■ Mic-in and Line-out (Realtek) ■ POAG connector ■ D C-input: 19V

OTHER FEATURES

■ WLAN 802.11ac and BT 4.2 with two internal antennas
■ Full-HD Webcam ■ Two speakers (2x 2W) ■ Hardware TPM v2.0

POWER SUPPLY

■ External 90W/19V medical power adapter (IEC 60601-1)
■ AC input 100~240V 50~60 Hz, 3-pin connector
■ Optional Wide Voltage Range: 9-36V (Accessory: VOL01)

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Shuttle Panel-PCs with Intel Core Gen13 Processors "Raptor Lake-U"

Touch Screen	Application	Panel-PC Model	Intel Processor	UPC Bar Code	Color (front / rear)	Medical Features
15.6" Full-HD 350 Nits	Industrial	P15RL01-i5	Core i5-1335U	887993008967	Black / Blue	—
	Medical	M15AL11-i5	Core i5-1335U	887993009810	White / White	Anti-bacterial coating, POAG pin, Medical power adapter
21.5" Full-HD 500 Nits	Industrial	P21RL01-i3 P21RL01-i5	Core i3-1315U Core i5-1335U	887993008974 887993008981	Black / Blue	—
	Medical	M21AL11-i5	Core i5-1335U	887993009841	White / White	Anti-bacterial coating, POAG pin, Medical power adapter

Front and Back Panel

Front panel

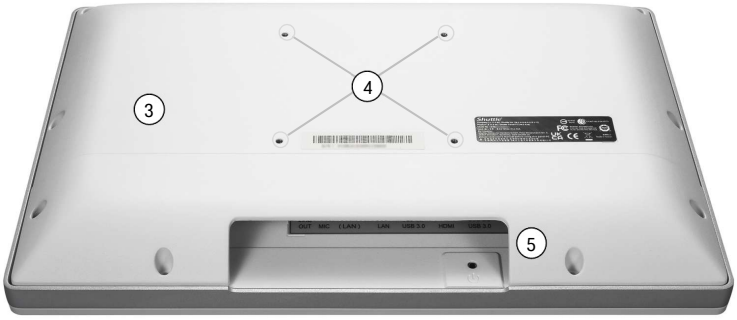


1. 15.6" Touch Panel
2. Full-HD Webcam
3. Anti-bacterial coating

Optional Shuttle Accessory:
Robust Dual VESA Stand POV21
The flexible design supports one or two Panel-PCs or Displays with 75x75 mm or 100x100 mm VESA mount up to 21.5" display size and a total weight of up to 20 kg. POV21 features optimised cable management with magnetic back cover and is flexible and easy to adjust.



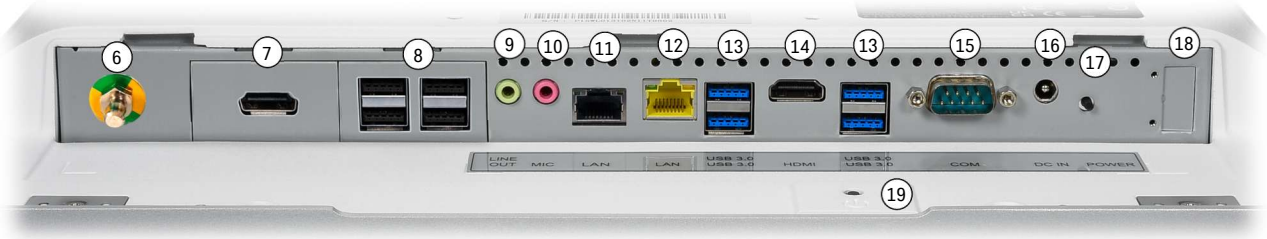
Rear View





4. Screw threads for VESA mount (100x100 mm)
5. Mounted back panel cover
6. Potential Equalization Pin (POAG) according to DIN 42801
7. HDMI 2.0b graphics port
8. 4x USB 2.0 Type A port
9. Audio Line Out (Headphones output)
10. Microphone input
11. 2.5 Gbps LAN port (Intel i226V)
12. 2.5 Gbps LAN port (Intel i226LM)
13. 4x USB 3.2 Gen 2 Type A port
14. HDMI 2.0b graphics port
15. RS232 Serial COM port
16. DC-in connector for power adapter
17. Power Button
18. Perforation (reserved)
19. Second Power Button

Back Panel



SPECIAL FEATURES



Reliable nonstop operation

The Shuttle Panel PC M15AL11-i5 is officially approved for 24/7 permanent operation at an ambient temperature of up to 40 °C. Thanks to its low power consumption and completely passive cooling, this PC runs highly reliably and is virtually noiseless.



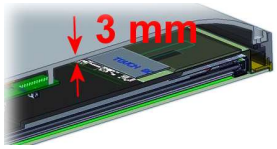
15.6“ Full-HD Touch Screen

This Panel PC has a high-grade 15.6" (39.6 cm) Full-HD display with high brightness (350 cd/qm) and low viewing angle dependence (±85°). The capacitive multitouch screen can also be operated with gloves and allows precise input with two or more fingers at the same time.



Anti-Bacterial Coating

The housing of this Panel PC comes with an anti-bacterial coating based on an inorganic zinc compound as antimicrobial substance to reduce the possibility of infection or sepsis through microorganisms like bacterias.



Robust Aluminium Chassis

Rear chassis and middle frame are completely made of high-grade Aluminium of 3 mm thickness.



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 splashing of water. This is particularly welcome in restaurants, laboratories, production or other places.



Triple Display Support

In addition to the built-in display two more independent Full-HD displays can be connected via HDMI 2.0b and VGA.



VESA Mounting

The Shuttle Panel PC M15AL11-I5 has four threaded holes for mounting a 100 x 100 mm VESA mount. For example, a suitable stand, VESA arm or wall mount can be used to mount the Panel PC.
Note: VESA mount and stand are not included in the scope of delivery.



Optional Stand „POV21“

A stand is not included in the scope of delivery. With “POV21”, Shuttle offers a suitable, robust stand made of high-quality aluminum alloy. Optionally, two devices can also be mounted on this stand (e.g. for a Panel PC and an additional display).



Optimized cable management

The connections on the back panel are facing down and hidden by a cover. The cover snaps in magnetically and is also fixed with screws.

Through a small opening the cables are led away from the PC in an orderly fashion This leads to an effective cable management making for a clean, tidy appearance.



Hidden Power Button

Since the primary power button is not accessible when the cover is on, there is also a second power button hidden on the back. You can also enable the “Restore on AC Power Loss” option in the BIOS so that it always starts immediately once voltage is applied.



Dual Intel 2.5 Gbps Network

The Shuttle Panel PC M15AL11-i5 supports Dual 2.5 Gbps LAN with Intel network adapters, which are known for their excellent performance and driver compatibility and therefore are the preferred choice in professional environments.



Potential equalization

The Shuttle Panel PC M15AL11-i5 features a potential equalization pin (POAG) according to DIN 42801 in order to connect the Panel PC with a suitable potential equalization terminal, that can be required in medical environments, for example.



Other connection options

The backpanel has two sections, which can optionally be assigned with other connectors, including HDMI, DVI, VGA, 4x USB and COM (RS232).

Shuttle Panel PC product comparison with previous generation

Display Size	Application / Colour	Intel Core Generation 12	Intel Core Generation 13
15.6″ 1920x1080 pixels Touch Panel 350 nits	**Industrial Panel-PC** Front: Black, Back cover: Blue Standard power adapter 	**Model:** P15AL01-i5 CPU: Intel Core i5-1235U Graphics ports: HDMI+VGA DC input: 9-36 V (wide range)	**Model:** P15RL01-i5 CPU: Intel Core i5-1335U Graphics ports: 2x HDMI DC input: 19 V
	Medical Panel-PC White color, Anti-bacterial, POAG connector, Medical power adapter 	**Model:** M15AL01-i5 CPU: Intel Core i5-1235U Graphics ports: HDMI+VGA DC input: 19 V	**Model:** M15AL11-i5 CPU: Intel Core i5-1335U Graphics ports: 2x HDMI DC input: 19 V
21.5″ 1920x1080 pixels Touch Panel 500 nits	**Industrial Panel-PC** Front: Black, Back cover: Blue Standard power adapter 	**Model:** P21AL01-i3/i5 CPU: Intel Core i3-1215U / i5-1235U Graphics ports: HDMI+VGA DC input: 19 V	**Model:** P21RL01-i3/i5 CPU: Intel Core i3-1315U / i5-1335U Graphics ports: 2x HDMI DC input: 19 V
	Medical Panel-PC White color, Anti-bacterial, POAG connector, Medical power adapter 	**Model:** M21AL01-i5 CPU: Intel Core i5-1235U Graphics ports: HDMI+VGA DC input: 19 V	**Model:** M21AL11-i5 CPU: Intel Core i5-1335U Graphics ports: 2x HDMI DC input: 19 V

SHUTTLE Panel PC M15AL11-i5 — SPECIFICATIONS

FANLESS AND SILENT	Passive heatpipe cooling, absolutely no fan noise Perfect for 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 panel is protected from dust and jets of water according to protection class IP65.
CHASSIS	Anti-bacterial coating based on an inorganic zinc compound (front panel) and epoxy/polyester resin (rear chassis) Robust chassis with cover for the I/O connectors Rear/cable cover and middle frame are all made of Aluminium Rear cover chassis thickness: 3.0 mm Colour: White Dimensions: 394.3 x 256.2 x 48.9 mm (W x H x D) Net weight: 4.6 kg 100x100 mm VESA mountable, 4x M4x6L screws required) VESA mount and stand are not included in the scope of delivery. Shuttle recommends the optional Shuttle Stand POV21.
OPERATING SYSTEM	This system comes without operating system. It is compatible with: - Windows 11 (64-bit) - please enable TPM function - Linux (64-bit)
TOUCHSCREEN	Touchscreen function supports fingertip input Projected capacitive touch panel with 10-point multi-touch Supports input with gloves (PVC, cotton, cotton/linen) Stylus pen not supported
DISPLAY (39.6 CM / 15.6")	39.6 cm / 15.6" LC display Type: a-Si TFT-LCD Ratio: 16:9 wide-screen panel Native resolution: 1920 x 1080 = 2 Megapixel (Full HD / 1080p) Viewing angle (left/right/up/down): 89° Brightness: 350 cd/sqm or nits (typ.) Contrast: 1000:1 (typ.) Signal Interface: eDP 30 pins (2 lanes)
PROCESSOR	Model: Intel Core i5-1335U Code name: Raptor Lake-U (13th generation Intel Core) Performance-cores (P-Cores): 2 cores (4 threads), Basic/Turbo clock: 1.3-4.6 GHz Efficient-cores (E-Cores): 8 cores (8 threads), Basic/Turbo clock: 0.9-3.4 GHz Smart-Cache (L3): 12 MB Base Power (PL1 TDP): max. 15 W Maximum Tjunction Temperature: 100 °C System-on-a-chip architecture (SoC) with integrated memory and graphics controller FCBGA1744 package - directly soldered onto the mainboard Lithography: Intel 7 process (10 nm Enhanced SuperFin)
INTEGRATED GRAPHICS	Intel® Iris® Xe Graphics GPU clock frequency: max. 1250 MHz Execution Units (EUs): 80 Supports up to three independent displays via the built-in Full HD display (supports 1080p/60) and two external displays, which can be connected via the two HDMI 2.0b ports (supporting 1080p/60 and 2160p/60).
UEFI BIOS	Supports resume after power failure Supports Wake on LAN (WOL) Supports Power on by RTC Alarm Supports boot from M.2 SSD cards and USB devices AMI BIOS in 32 MB EEPROM with SPI interface Supports hardware monitoring and Watchdog function Supports Unified Extensible Firmware Interface (UEFI)
TPM MODULE	Hardware Trusted Platform Module (Infineon SLB9670VQ2 TPM 2.0)

POWER ADAPTER	External 90 W power adapter (fanless) Model FSP090-RBBM1 Medical Safety IEC 60601-1, Meet EN55011 and FCC Class B Input: 90~264 V AC, 50/60 Hz Output: 19 V DC, 4.74 A, max. 90 W DC Connector: 5.5/2.5 mm (outer/inner diameter) AC mains cable: 3 pins, with C5/C6 coupler (called "Mickey Mouse" or "Clover-leaf") for the power adapter and CEE-7/7 plug with earth-contact (type E+F) for the power outlet DOE Energy Efficiency Level VI No Load Power Consumption = 0.21W Dimensions: 140 x 71 x 22 mm
DC INPUT CONNECTOR	DC Input Connector: 5.5 / 2.5 mm (outer/inner diameter). The DC-input of the computer supports 19V±5%. Optional extended voltage range of 9 to 36V with the Shuttle Accessory **V0L01**.
KNOPFZELLEN-BATTERIE	The product contains a built-in 3V button cell battery For further information see footnote **[1]**
MEMORY SUPPORT	2x SO-DIMM slot with 262 pins Supports DDR5-5200 (PC5-41600) SDRAM at 1.1 V Supports memory modules with higher frequency rating (e.g. DDR5-6400) Supports Dual Channel mode Supports a maximum of 32 GB per DIMM, maximum total size: 64 GB
M.2 SLOT FOR SSDs	The M.2 2280 M slot provides the following interfaces: - PCI-Express Gen. 4.0 X4 - SATA v3.0 (max. 6 Gbps) It supports M.2 SSD cards with a width of 22 mm and a length of 80 or 42 mm (type 2280 or 2242). Supports M.2 SATA SSDs (with B+M key) and M.2 PCIe NVMe SSDs (with M key) with auto interface detect
WEBCAM	Integrated Full-HD 2.0 Megapixel (1920 x 1080) camera
AUDIO AND SPEAKERS	Audio Realtek® ALC888S High-Definition Audio Two analog audio connectors (3.5 mm) on the back panel: 1) 2 channel line out (headphones) 2) microphone input Digital multi-channel audio output: via HDMI Two Two built-in speakers (2x 2W Stereo)
DUAL INTEL 2.5G LAN	Dual network with RJ45 ports and Intel i226 network chips (black connector: Intel i226V, yellow connector: Intel i226LM) Supports 10 / 100 / 1000 / 2500 MBit/s operation Supports WAKE ON LAN (WOL) Supports network boot by Preboot eXecution Environment (PXE)
WIRELESS NETWORK (WLAN)	Built-in M.2-2230-E WLAN card with two internal antennas WLAN Controller Realtek RTL8821CE Supports WiFi IEEE 802.11b/g/n/ac in the 2.4 / 5 GHz band, 1T1R Supports 20 / 40 / 80 MHz channel bandwidth Security: supports WPA(-PSK), WPA2(-PSK), WEP 64/128 bit, IEEE 802.11x, IEEE 802.11i Supports Bluetooth 4.2 in the 2.4 GHz band
BACK PANEL CONNECTORS	Power Button (another button available in an easily accessible place) 2x HDMI 2.0b (digital video+audio) 4x USB 3.2 Gen 2 Type A (max. 10 Gbps) 4x USB 2.0 2x Intel 2.5G LAN (RJ45, i226V and i226LM) 1x Serial Port (DB-9/D-sub, RS232) Microphone input (3.5 mm) Audio Line-out / Headphones (3.5 mm) DC-input connector for external power adapter Potential equalization pin (POAG) according to DIN 42801 including cable
OPTIONAL ACCESSORIES	**- Robust VESA Stand P0V21:** supports one or two Panel-PCs or Displays with 75x75 or 100x100 mm VESA (max. 21.5" display size and 20 kg total weight). **- Wide Voltage Range V0L01:** supports DC-Input 9-36 V DC (instead of 19V only)

ENVIRONMENTAL SPECIFICATIONS	Operating temperature: 0 ~ 40 °C Storage temperature: -20 ~ 60 °C Permitted relative humidity: 20 ~ 80 % (non-condensing)
CONFORMITY AND CERTIFICATIONS	EMC: CE EN60601-1-2:2015+A1:2021, EN IEC61000-3-2:2019+A1:2021, FCC Part 18, FCC/OST MP-5 Safety: cTUVus(ANSI/AAMI ES60601-1:2005/A2:2021), CB(IEC 60601-1:2005/AMD2:2020) RF: EU, US, Taiwan This device is classed as a technical information equipment (ITE) in Class A. Class A is for products used in commercial and industrial areas. 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) (4) 2014/53/EU Radio Equipment Directive (RED)

[1] Button Cell Battery

- Purpose:
  The built-in button cell battery on the mainboard supplies the CMOS memory and the Real-Time Clock (RTC) with power so that certain settings are retained and the internal clock continues to run – even if the PC is completely switched off or disconnected from the power supply.
- Specification:
  Model: Lixing KTS CR2032 with cable and connector (Molex 51021-8602, 2-pin, 1.25 mm pitch)
  Type: Lithium metal battery, non-rechargeable, transport identification: UN 3091 (battery is built-in)
  Nominal voltage: 3.0V, nominal capacity: 220 mAh (0.66 Wh)
  Dimensions: 20 mm diameter, 3.2 mm thickness
  Weight: 3.2 g, of which 0.063 g lithium (2.1%)
  Manufacturer: Wuhan Lixing (Torch) Power Sources Co, Ltd, Address: No. 7 Plot, Guandong, Science and Technology Industrial Park, East Lake Development Zone, Wuhan, Hubei, China
- Certificates:
  Material Safety Data Sheet (MSDS), UN38.3 test report, ISO 9001 of the manufacturer, EU DoC
  Download here: https://go.shuttle.eu/Py1Jn
- Replace the battery:
  If the PC issues error messages about the clock or CMOS when starting up, the system's CMOS battery probably needs to be replaced. Use a model with the same technical characteristics as a replacement battery or contact our technical support at support@shuttle.eu.
  The replacement of a CMOS battery may only be carried out by qualified specialist personnel. Improper handling can lead to damage to the mainboard, loss of data or electrical risks. Disconnect the device from the power supply before opening it. Make sure that you do not injure yourself on the sharp metal edges inside the computer. Open the device according to the Quick Installation Guide supplied. Find the battery and pull on the connecting cable so that the plug comes off the mainboard (see photo below). Before pulling out, pay attention to the polarity based on the cable colours (red and black). Carefully remove the old battery, which is stuck on with an adhesive pad. With the new battery, remove the protective film from the adhesive pad and stick the battery in the same position, connect the cable and reassemble the PC. When switching on for the first time, press the "DEL" key, load the "Default Settings" in the BIOS and make any other necessary settings before saving the settings and exiting the BIOS setup.

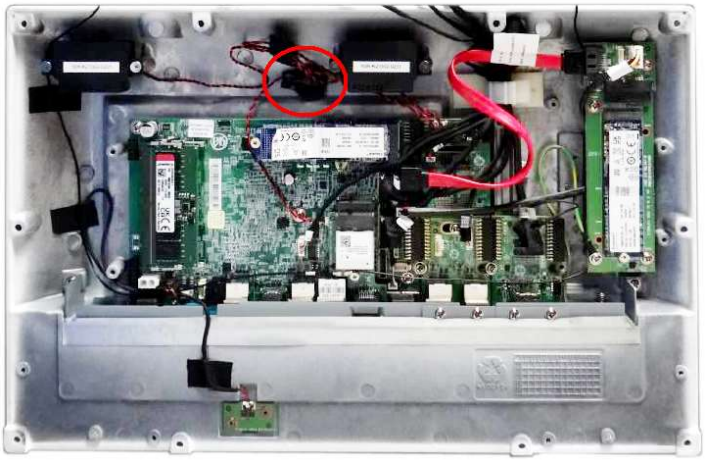
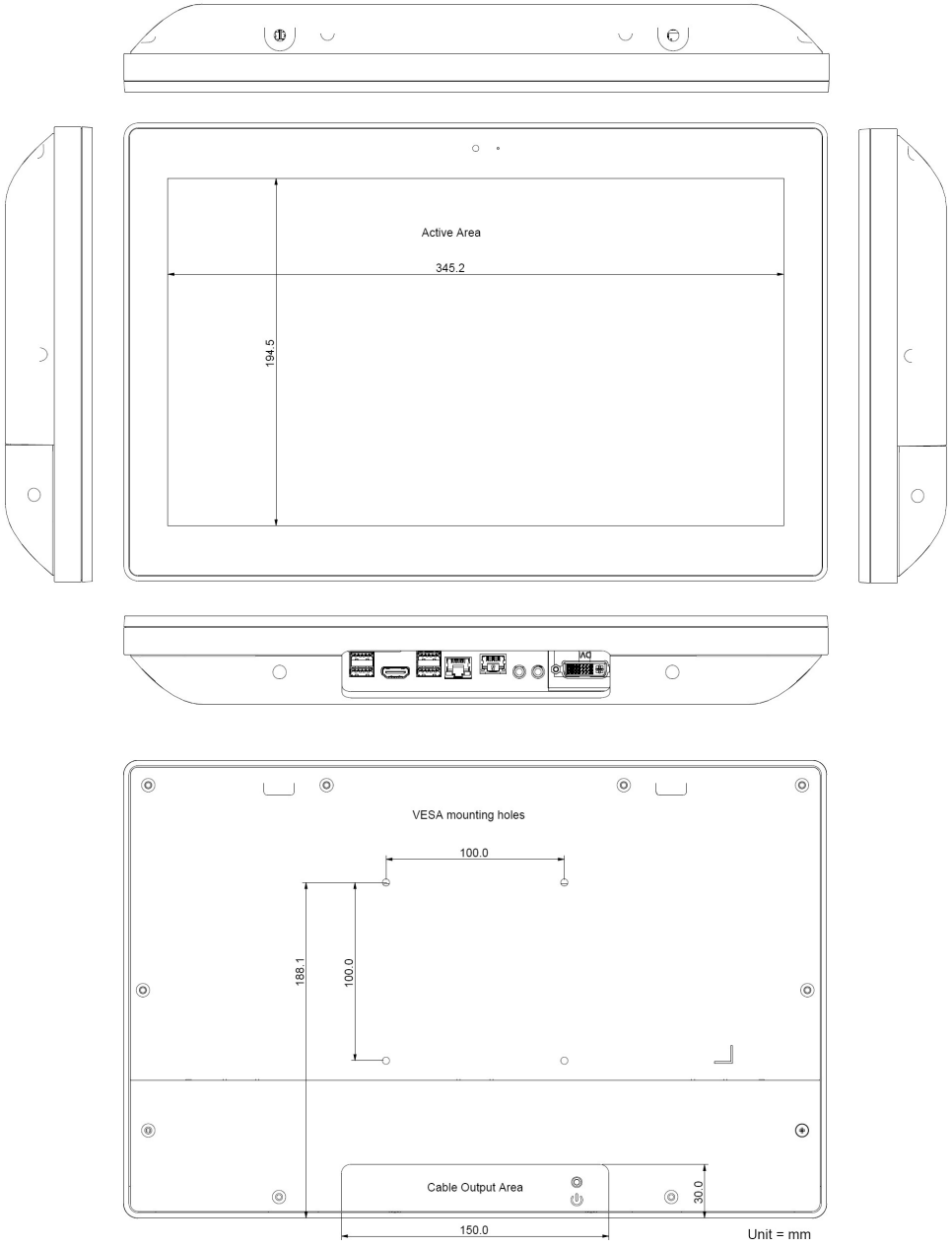


Photo: Position of the button cell battery and the connector on the mainboard with the computer housing open.

- Disposal:
  Batteries are classified as hazardous waste and must be disposed of properly. Do not throw them in the household trash. Dispose of batteries at the designated collection points prescribed by law in your country, e.g. at the dealers' collection points.
- Safety instructions:
  This product contains a lithium button cell battery that can cause serious or fatal injury within 2 hours if swallowed. Not intended for children under the age of three.

SHUTTLE Panel PC M15AL11-i5 — TECHNICAL DRAWING

Overall dimensions: 394.3 x 256.2 x 48.9 mm (WHD)



VESA mount and stand are not included in the scope of delivery.

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