



Touch Panel PC **P15AL01**

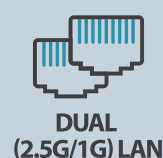
15.6-inch Multi-Touch Panel PC

Empowering IoT : Enhanced Display and Connectivity

The Shuttle P15AL01 is a 15.6-inch industrial-grade touchscreen computer powered by Intel® 12th Gen Alder Lake-U/UE Processors. Its advanced performance hybrid architecture combines P-Cores and E-Cores, achieving intelligent productivity and multitasking efficiency, and also enhances visual effects through the Intel® Iris® Xe graphics*. Moreover, it supports dual-channel DDR5-4800 MHz memory with a maximum capacity of 64GB, ensuring intensive data computing capability for various IoT applications.

This model boasts rich I/O interfaces, including USB 3.2 Gen2, RS232, HDMI 2.0b, and versatile expansion choices, enabling peripherals connectivity and smooth display transitions. It offers flexible connectivity options such as 2.5Gbps LAN, optional second RJ45 LAN ports, IEEE802.11ac WiFi, and Bluetooth 4.2. Furthermore, the P15AL01 features an IP65-rated front panel and a nearly maintenance-free fanless design, making it an ideal solution for diverse industry applications, including industrial manufacturing, smart retail, image surveillance, medical stations, and interactive kiosks.

* Intel Iris Xe Graphics requires an Intel Core i5 processor or higher and a dual-channel memory configuration to function.



FEATURES

- 15.6-inch Full HD capacitive, 10-point multi-touch screen
- 12th Generation Intel® Alder Lake-U/UE Processor based
- Dual independent displays: HDMI 2.0 (up to 4096 x 2160 @ 60Hz) and DVI
- Robust design: fanless, IP65 front panel, aluminum chassis, hidden switch
- 4 x USB 3.2 Gen 2 (Type-A), 2 x Intel® Gigabit LAN (2.5G and 1G)
- Flexible expansion: 4 x USB 2.0, 1 x COM (RS-232) or 2 x COM (RS-232/422/485), 2 x RJ-45



SPECIFICATIONS

P15AL01

System			
Processor	12 th Gen. Intel® Alder Lake Core i3-1215UE (default) Optional: i5-1235U, i5-1245UE, i7-1255U, i7-1265UE, Celeron® 7305E		
Memory	2 x 262 pin SO-DIMM up to 64GB Dual Channel DDR5 4800MHz	BIOS	AMI UEFI 64 bit
Display and Touch Screen			
Display	15.6" 1920x1080 Full HD LED with 10-Point Capacitive Multi-Touch		
Viewing Angle (H/V°)	85 (left), 85 (right), 85 (up), 85 (down)	Brightness	450/350/250 cd/m2
Contrast	1000:1	Backlight Lifetime	50,000/30,000/15,000 hrs
Graphics			
Chipset	Intel® UHD or Iris® Xe Graphics		
Display Interface	- Supports two independent displays 1 x HDMI 2.0: 4096 x 2160@60Hz 1 x DVI-I (optional daughter board) 1 x VGA (optional daughter board)		
Video Decoder	WMV,AVC/H264,JPEG/MJPEG,HEVC/H265,VP9,AV1		
Storage			
Internal	1 x M.2 2280 M key (PCIe x4 or SATA, either one) - Optional: 1 x M.2 M 2280 SSD, SATA I/F, slidable design 1 x M.2 M 2280 SSD, SATA I/F, fixed design (Either one of above)		
Audio			
Audio Codec	Realtek ALC888S-VD 2-channel		
Network			
Ethernet	2 x Intel® LAN - Support Wake On LAN		
WLAN	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 5.0 (M.2 2230 E key) with 2 internal antenna(default)/external antenna(optional)		
I/O Interface			
Serial Ports	1 x RS-232 (DB-9) 2 x RS-232/422/485 (DB-9) (RS-232 with power supply: ring in/ 5V (standard) &12V (with specific optional board))		
USB	4 x USB3.2 Gen 2 (Type A)	Audio	1 x Line-out 1 x Mic-in
Power			
Bundled Adapter	19V/4.74A 90W external adapter		
Watchdog Timer			
Watchdog	Support watchdog		
OS Support			
OS Support	Windows 11 64bit / Linux 64bit		
Mechanism			
IP Rating	IP65 Front Panel Protection	Mounting	VESA Mount 100 x 100 mm
Dimension (WxHxD)	394 x 256 x 48.9 mm	Weight	4.6kg
Environment			
Operating Temperature	0 ~ 40°C	Storage Temperature	-20°C ~ 60°C
Relative Humidity	20% - 80% RH (non-condensing)	EMC	CE, FCC, VCCI, BSMI, UKCA
Safety	CB, CEC, cTUVus, BSMI, EAC	RF	EU, US, Taiwan