Shuttle®

Touch Panel PC

P21WL01

21.5" MULTI-TOUCH PANEL COMPUTER

intel CORE i3 8th Gen · intel CORE i5 8th Gen · intel CORE i7 8th Gen

EASY SWAP STORAGE

21.5-INCH MULTI-TOUCH

40° ENVIRONMENT

The P21WL01 is an industrial-grade panel PC integrating a 21.5-inch FHD TFT LCD panel and supporting 10-point touch function. Powered by Intel Whiskey Lake-U Core i platform, the fanless system features an IP65 front bezel design and rugged steel housing, providing the powerful and reliable performance of multitasking capabilities. Rich I/Os include four USB 3.2 Gen1, three COM ports, dual Intel Gigabit LAN, making the system easily integrate into a variety of business and industrial applications.

- Supports Intel® Whiskey Lake-U/UE Processors, from commercial to embedded
- IP65 front panel waterproof protection
- I/O interfaces: 1x HDMI, 1x DVI-I, 4x USB 3.2 Gen1, 1x RS232, 2x RS232/422/485 (support Ring in and 5V power), 2x RJ-45
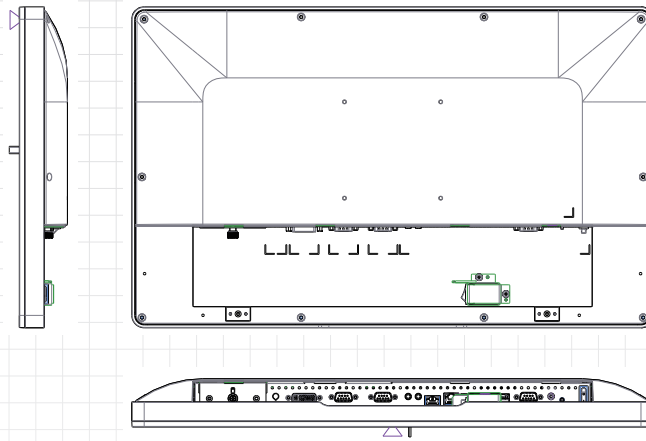- Dual Intel Gigabit LAN and dual antenna

Kiosk

Digital signage (shopping mall)

Digital signage (transportation)

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Dimensions

Specifications

System	
CPU	8th Gen. Intel® Whiskey Lake Core i3-8145UE (default) Optional: i5-8265U, i5-8365UE, i7-8565U, i7-8665UE, Celeron® 4305UE
Memory	2 x 260 pin SO-DIMM up to 64GB Dual Channel DDR4 2400MHz
BIOS	AMI UEFI 64 Mbit

Display and Touch Screen			
Display	21.5" 1920x1080 Full HD TFT LED with 10-Point Projected Capacitive Multi-Touch		
Viewing Angle (H/V°)	89 (left), 89 (right), 89 (up), 89 (down)	**Brightness**	300 nits
Contrast	1000 : 1	**Backlight Lifetime**	30,000 hrs

Graphics			
Chipset	Intel UHD Graphics	**Display Interface**	HDMI 1.4 : 4096 x 2160@30Hz 1 x DVI-I : 1920 x 1080@60Hz Supports triple displays

Storage	
Internal	1 x M.2 2280 M key (PCIe NVMe / SATA) 1 x Swappable 2.5" SSD SATA 3.0 drive bay (compatible 7mm)

Audio	
Audio Codec	Realtek ALC662 2-channel

Network	
Ethernet	2 x Intel® Gigabit LAN
WLAN	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 4.2 (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 support ring in / 5V power)		
USB	4 x USB3.2 Gen 1 (Type A)	**Audio**	1 x Line-out 1 x Mic-in

Power	
Adapter	19V/4.74A 90W external adapter

Watchdog Timer	
Watchdog	Support watchdog

OS Support	
OS Support	Windows 10 64 bit / Linux 64bit

Mechanism			
IP Rating	IP65 Front Panel Protection	**Mounting**	VESA Mount 100 x 100 mm
Dimension (WxHxD)	543 x 334 x 49.9 mm	**Weight**	7.6kg

Environment			
Operating Temperature	0 ~ 40°C	**Storage Temperature**	-20°C ~ 60°C
Relative Humidity	20% - 80% RH (non-condensing)	**EMC**	CE, FCC, VCCI, BSMI
Safety	cTUVus, CB, BSMI	**RF**	US, EU, Taiwan