TPC-324W

24" FHD TFT LED LCD Touch Panel Computer with 8th Gen. Intel[®] Core™ i3/ i7 Processor. built-in 8G DDR4 RAM



Features

- Industrial-grade 24" FHD TFT LCD with 30K lifetime and LED backlight
- 8th Gen. Intel® Core™ i3- 8145UE dual-core/ i7-8665UE guad-core processor with built-in 8 GB DDR4 SO-DIMM
- Dual channel memory slots support up to 64G in total
- Compact, fanless embedded system with aluminum alloy front bezel and chassis grounding protection
- True-flat touchscreen with P-CAP multi-touch control and IP66-rated front panel
- Support expansion via Full-size Mini PCIe and two M.2 slots (NVMe, 5G)
- Diverse system I/O and isolated digital I/O via iDoor technology
- Support fieldbus protocols/GPS/GPRS/Wi-Fi capabilities via iDoor technology
- Support TPM2.0 hardware security

Introduction

TPC-324W touch panel computer is equipped with 23.8" FHD TFT LED LCD, low-power 8th Gen. Intel[®] Core™ i3- 8145UE dual-core/ i7-8665UE quad-core processor, and 8 GB DDR4 S0-DIMM delivering high performance yet compact and fanless computing system. To provide enhanced durability and satisfy diverse applications of industrial automation, TPC-324W features IP66-rated front panel protecting against dust and water ingress, and two extra expansion M.2 M Key, B Key slots supporting NVMe, SATA or 5G application. With Advantech's iDoor technology integrated via mini PCle slot for function expansions such as additional I/O ports, isolated digital I/O, fieldbus protocols, GPS/GPRS/Wi-Fi communication and MRAM. The integrated DP and audio ports allow a secondary monitor and speakers to be attached for increased functionality.

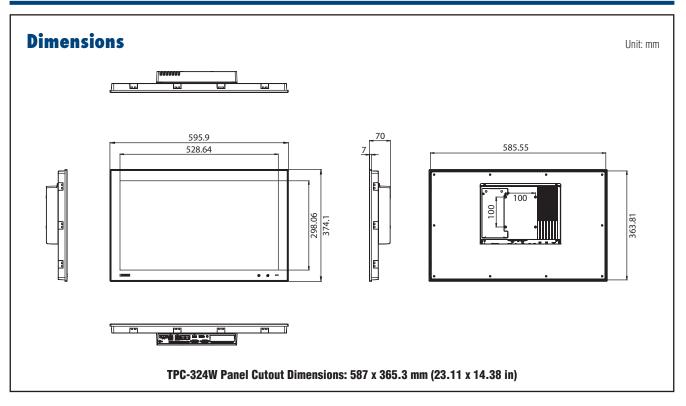
Specifications

Conoral

General		LCD Display		
BIOS	AMI UEFI	 Display Type 	FHD TFT LED LCD	
 Certification 	BSMI, CCC, CE, FCC Class A, CB/UL	 Display Size 	23.8" (16:9)	
 Cooling System 	Fanless design	 Max. Resolution 	1920 x 1080	
 Dimensions (W x H x D) 595.9 x 374.1 x 70 mm (23.46 x 14.73 x 2.76 in)	 Max Colour 	16.7M	
 Enclosure 	Front bezel: Die cast aluminum alloy	Luminance cd/m ²	350	
	Back housing: Die cast aluminum alloy	 Viewing Angle (H/V°) 	178°/178°	
 Mounting 	VESA Mount, Desktop, Wall or Panel Mount	 Backlight Life 	30,000hrs	
 OS Support 	Win 10, Android, Linux	 Contrast Ratio 	1000:1	
 Power Consumption 	56.31W (Typical)			
 Power Input 	$24 V_{DC} \pm 20\%$	Touchscreen		
 Watchdog Timer 	15-255 sec (system)	 Light Transmission 	90% ± 3%	
 Weight (Net) 	9.3kg (20.5lbs)	∎ Туре	PCAP	
System Hardware		Environment		
- CPU	8 th Gen. Intel [®] Core [™] i3- 8145UE 2.20 GHz Dual-core/ i5-8365UE 1.60 GHz Quad-core/ i7-8665UE 1.70 GHz Quad-core processor	 Humidity Ingress Protection Operating Temperature 	10 ~ 95% RH @ 40°C, non-condensing IP66-rated front panel -10~50°C (14~122°F) (w/o air flow)	
 Memory 	Dual channel DDR4 SO-DIMM (Each channel supports up to 32G) 1 x 8G DDR4 SO-DIMM (Built-in)	 Storage Temperature Vibration Protection 	$-20-70^{\circ}$ C ($-4-158^{\circ}$ F) With SSD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)	
- LAN	2 x 10/100/1000BASE-T		(oporating) random ribrati	0.1.)
Expansion Slot	1 x Full-size mini PCle	Rear View		
 Storage Slot 	1 x M.2 M key 2280 (SATA or NVMe PCIe x4) 1 x M.2 B key 2242 (SATA / PCIe) 1 x 2.5" SSD/ HDD (SATA, Max. 7mm)	АВ С 		A. Default HD B. iDoor slot
- 1/0	2 x RS-232/422/485 1 x USB 2.0 4 x USB 3.2 1 x iDoor slot 1 x Displayport (Video output) 1 x Audio line out/ mic in			C. RS-232/42 D. Audio line E. Display Po F. USB 2.0 G. LAN (10/10 H. USB 3.2 I. Power Rec

- air flow)
 - Hz) n)
 - A. Default HDD/SSD Bay B. iDoor slot
 - C.RS-232/422/485
 - D. Audio line out/ mic in
 - E. Display Port
 - F. USB 2.0
 - G.LAN (10/100/1000) H. USB 3.2
 - I. Power Receptor

TPC-324W



Ordering Information

TPC-324W-P833A TPC-324W-P853A

23.8" FHD Panel PC, Intel® Core™ i3-8145UE 2.20GHz

- Dual-core Processor, 8G DDR4 RAM
 - 23.8" FHD Panel PC, Intel® Core™ i5-8365UE 1.60GHz
- Quad-core Processor, 8G DDR4 RAM
- 23.8" FHD Panel PC, Intel® Core™ i7-8665UE 1.70GHz TPC-324W-P873A Quad-core Processor, 8G DDR4 RAM

Optional Accessories

- 96PSA-A120W24T2-3 120W 24V_{DC} power supply
- **1702002600** Power cable (US) 1.8 M
- 1702002605 Power cable (EU) 1.8 M
- 1702031801 Power cable (UK) 1.8 M
- 1700000596-11 Power cable (China/Australia) 1.8 M

Embedded OS

- Win10
- Android
- Advantech Linux

iDoor Modules

- PCM-24D2R4-BE Isolated RS-422/485, DB9 x 2, (USB type) Isolated RS-232, DB9 x 2, (USB type)
- PCM-24D2R2-BE
- PCM-24R1TP-AE 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45 Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1
- PCM-27D24DI-AE
- PCM-24S2WF-BE . PCM-26D2CA-AE
- 802.11 a/b/g/n/ac 2T2R w/BT4.1, Atheros QCA6174A 2-Port Isolated CANBus mPCle, CANOpen, DB9 Internal locked USB Slot for USB Dongle, mPCle
- PCM-23U1DG-CE
- PCM-24R2GL-AE PCM-24S34G-ABE
- 2 Port Giga LAN Intel i350 PCIe mini card TOBY-L200 LTE/HSPA+/GPRS, mPCle, Ant, America (US)
- TOBY-L210 LTE/HSPA+/GPRS, mPCle, Ant, EMEA/ PCM-24S34G-EBE APAC (AU.EU)

Application Software

	Advantech WebAccess/SCADA is a 100% browser-based IIoT software platform aimed at		
WebAccess/SCADA	supervisory control and data acquisition (SCADA) operations. WebAccess/SCADA provides open interfaces that allow our customers and partners to develop unique IoT applications for different vertical markets. In addition to supporting traditional SCADA functions, the platform features an HTML5-based user interface and intelligent dashboard to facilitate cross-platform, cross-browser data analysis. Moreover, WebAccess/SCADA not only offers built-in widgets, but is also equipped with an innovative Widget Builder that enables customers to build their own widgets.		
WebAccess/HMI	Advantech WebAccess/HMI is human-machine interface (HMI) software based on Microsoft's Windows operating system. This software features excellent communication and monitoring capabilities, supports more than 350 PLC communication protocols, and offers a wide choice of screen design objects to satisfy diverse integrations of factory automation and HMI operation and monitoring requirements.		