TPC-324W

23.8" FHD TFT LED LCD Touch Panel Computer with 8th Gen. Intel[®] Core™ i3/i5/i7 Processor. built-in 8G DDR4 RAM



Features

- Industrial-grade 23.8" FHD TFT LCD with 30K lifetime and LED backlight
- 8th Gen. Intel® Core™ i3- 8145UE dual-core/ i5-8365UE guad-core/ i7-8665UE quad-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/ i5-8365UE quad-core/ i7-8665UE quad-core processor, and 8 GB DDR4 SO-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 PCIe 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

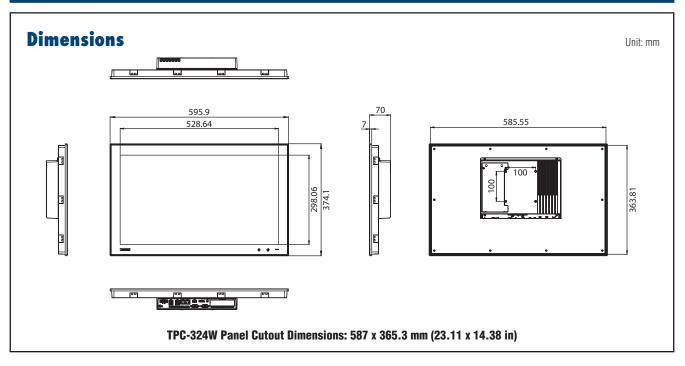
Conoral

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	
) 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/m² 	350	
	Back housing: Die cast aluminum alloy	· · · · · ·	178°/178°	
 Mounting 	VESA Mount, Desktop, Wall or Panel Mount	 Viewing Angle (H/V°) 		
 OS Support 	Win 10, Android, Linux	 Backlight Life 	30,000hrs	
 Power Consumption 	56.31W (Typical)	 Contrast Ratio 	1000:1	
 Power Input Watchdog Timer 	24 V _{DC} ± 20% 15-255 sec (system)	Touchscreen		
 Watchuog Thilet Weight (Net) 	9.3kg (20.5lbs)			
- weight (Net)	9.5kg (20.5lb5)	 Light Transmission 	90% ± 3%	
System Hardware		 Type 	PCAP	
- CPU	8th Gen. Intel [®] Core™ i3- 8145UE 2.20 GHz Dual-core/	Environment		
	i5-8365UE 1.60 GHz Quad-core/ i7-8665UE 1.70 GHz	 Humidity 	10 ~ 95% RH @ 40°C, non	condonsing
	Quad-core processor		,	Foundensing
 Memory 	Dual channel DDR4 SO-DIMM (Each channel supports	 Ingress Protection 	IP66-rated front panel	· · · · · · · · · · · · · · · · · · ·
	up to 32G)	1 9 1	-10~50°C (14~122°F) (w/o	air flow)
	1 x 8G DDR4 SO-DIMM (Built-in)	 Storage Temperature 	-20~70°C (-4~158°F)	
LAN Typension Slot	2 x 10/100/1000BASE-T 1 x Full-size mini PCIe	 Vibration Protection 	With SSD: 1 Grms (5 ~ 500	,
 Expansion Slot 	1 x SIM (M.2 B Key 4G/5G module)		(Operating, random vibratio	in)
Storage Slot	1 x M.2 M key 2280 (SATA or NVMe PCle x4)			
- Storage Stor	1 x M.2 B key 2242 (SATA OF NVME FOR X4)	Rear View		
	3042, 3052 (5G)			
	1 x 2.5" SSD/ HDD (SATA, Max. 7mm)	A B C		A. Default HDD/SSD Bay B. iDoor slot
= I/O	2 x RS-232/422/485			C.RS-232/422/485
	1 x USB 2.0			D. Audio line out/ mic in
	4 x USB 3.2 (Gen 2)			E. Display Port
	1 x iDoor slot			F. USB 2.0
	1 x Displayport (Video output)			G.LAN (10/100/1000)
	1 x Audio line out/ mic in	DEF	GHI	H. USB 3.2 (Gen 2)
				I. Power Receptor

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TPC-324W



Ordering Information

• T	PC-324W-P833A	23.8" FHD Panel PC, Intel® Core™ i3-8145UE 2.20GHz
		Dual aara Draasaar 00 DDD4 DAM

- Dual-core Processor, 8G DDR4 RAM TPC-324W-P853A 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 23.8" FHD Panel PC, Intel® Core™ i3-8145UE TPC-324W-P833A0 2.20GHz Dual-core Processor, 8G DDR4 RAM, without
- Audio Function 23.8" FHD Panel PC, Intel® Core™ i5-8365UE 1.60GHz TPC-324W-P853A0 Quad-core Processor. 8G DDR4 RAM, without Audio Function

Optional Accessories

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

Android

• 1700000596-11

Embedded OS

- 20703WX9HS0020
- 20703WX9VS0023
- Img WIN10LTSC v6.05 B039 TPC-300/TPC-B510 High Img WIN10LTSC v6.05 B039 TPC-300/TPC-B510 Value Advantech Linux
- 20703LEB1S0091
- Coming Soon

iDoor Modules

- PCM-24D2R4-BE
- PCM-24D2R2-BE
- PCM-24R1TP-AE
- PCM-27D24DI-AE PCM-24S2WF-BE
- PCM-26D2CA-AE
- PCM-23U1DG-CE
- PCM-24R2GL-AE
- PCM-24S34G-ABE
- PCM-24S34G-EBE

- Isolated RS-422/485, DB9 x 2, (USB type)
- Isolated RS-232, DB9 x 2, (USB type)
- 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45
- Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1
- 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 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/ APAC (AU.EU)

Application Software

WebAccess/SCADA	Advantech WebAccess/SCADA is a 100% browser-based IIoT software platform aimed at 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.			

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries. Please contact Advantech for certificate compliance.