TPC-318WH

18.5" WXGA TFT LED LCD Touch Panel Computer with 8th Gen. Intel[®] Core™ i5 Processor, built-in 8G DDR4 RAM, 240G SSD and UL Class 1 Division 2



Features

- Industrial-grade 18.5" WXGA TFT LCD with 50K lifetime and LED backlight
- 8th Gen. Intel® Core™ i5-8365UE 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 PCAP touch control and IP66-rated front panel
- Diverse system I/O and isolated digital I/O via iDoor technology
- Support TPM2.0 hardware security

Introduction

TPC-318WH touch panel computer is a C1D2 certification model equipped with 18.5" WXGA TFT LED LCD, low-power 8th Gen. Intel[®] Core™ i5-8365UE quad-core processor, and built-in 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-318WH 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. Moreover, TPC-318WH has been C1D2 certified for the application in hazardous environments.

LCD Display

Specifications

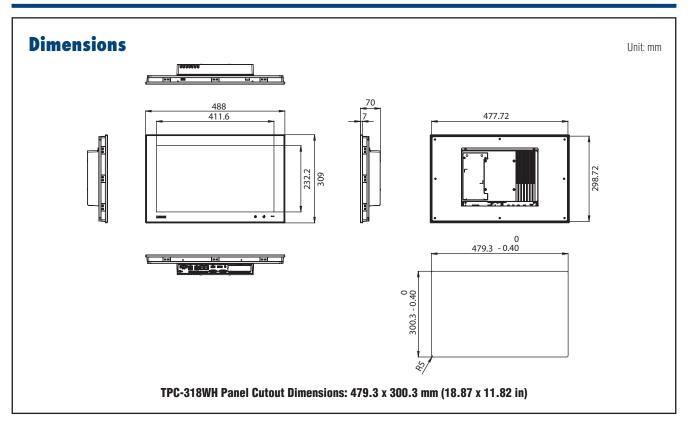
General

aonorai		LOD Dispidy	
BIOS	AMI UEFI	 Display Type 	WXGA TFT LED LCD
 Certification 	BSMI, CCC, CE, FCC Class A, CB/UL C1D2	 Display Size 	18.5"
Cooling System	Fanless design	 Max. Resoltuion 	1366 x 768
Dimensions (W x H x D) 477.72 x 298.72 x 70 mm (18.81 x 13.52 x 2.68 in)	 Max Colour 	16.7M
Enclosure	Front bezel: Die cast aluminum alloy	Luminance cd/m ²	450 cd/m ²
	Back housing: Die cast aluminum alloy	 Viewing Angle (H/V°) 	170°/160°
 Mounting 	VESA Mount, Desktop, Wall or Panel Mount	 Backlight Life 	50,000 hrs
 OS Support 	Win 10, Linux	 Contrast Ratio 	1000:1
 Power Consumption 	45.48W (Typical)	Touchscreen	
 Power Input 	$24 V_{DC} \pm 20\%$		00
 Watchdog Timer 	15-255 sec (system)	 Lifespan 	36 million touches at a single point
 Weight (Net) 	6.3kg (13.89lbs)	 Light Transmission 	Above 75%
		 Resolution 	Linearity
System Hardware		 Type 	PCAP touch screen
CPU	8th Gen. Intel [®] Core™ i5-8365UE 1.60 GHz Quad-core	Environment	
	processor		05% DIL @ 10°C pap condensing
 Memory 	Dual channel DDR4 SO-DIMM (Each channel supports	 Humidity 	95% RH @ 40°C, non-condensing
	up to 32G)	 Ingress Protection 	IP66-rated front panel
 Storag 	1 x 2.5" SSD 240G(480G Option)		-10~55°C (14~131°F) (w/o air flow)
	1 x 8G DDR4 SO-DIMM (Built-in)	 Storage Temperature 	-20~70°C (-4~158°F)
LAN	2 x 10/100/1000BASE-T	 Vibration Protection 	With SSD: 1 Grms (5 ~ 500 Hz)
Expansion Slot	1 x Full-size mini PCle*		(Operating, random vibration)
	1 x SIM (M.2 B Key 4G/5G module)*	Rear View	
 Storage Slot 	1 x M.2 M key 2280 (SATA or NVMe PCIe x4)	NCUI VICW	A. Default
	1 x M.2 B key 2242 (SATA / PCle)		B. iDoor s
1/0	1 x 2.5" SSD/ HDD (SATA, Max. 7mm)	АВ С	C.RS-232
= I/O	2 x RS-232/422/485 1 x USB 2.0		D. Audio li
	4 x USB 3.2 (Gen 2)		
	1 x iDoor slot		F. USB 2.(
	1 x Displayport (Video output)		G. LAN (10 G. H. J. H. USB 3.2
* C1D2 report doesn't cover expansi	1.x. Audio line out/ mic in	DE F	GHI H. USB 3.2 I. Power F
^ UTD2 report doesn't cover expansi	on slot features.		1. 1 00011

- 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 (Gen 2)
 - I. Power Receptor

AD\ANTECH Industrial Thin-Client Terminals All product specifications are subject to change without notice.

TPC-318WH



Ordering Information

TPC-318WH-P853A

18.5" WXGA Panel PC, C1D2 certification, Intel[®] Core™ i5 8365UE 1.6GHz Quad-core processor, 8G DDR4 RAM, 240G SSD

Optional Accessories

- 96PSA-A120W24T2-4 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
- 1700000596-11 Power cable (China/Australia) 1.8 M

Packing List

Item	Part No.	Depiction	Qty
Grounding cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1
Plug-In Block	1652007930-01	Plug-In Block 1x3P/5.08mm/PA66/F/VA	1
Warranty	2190000902	CARDBOARD-WARRANTY REV. A2	1
VESA Screw	1930005204	Screw M4x10L R/S DH=6.8x2.50 + ST ZBK PL	4
HDD Screw	1930001361	Screw M3x4L S/S D=5 H=1.2 (2+) ST Ni NK	4
M.2 Screw	19350304A0	Screw M3x4L R/S D=5.3 H=2 (2+) ST Ni NK	1
DRAM Thermal Pad	1990020119N001	Thermal Pad 59x24.2x3.0mm XR-HL K=1.2 TP Sarcon	1
Clamp	1960018986T000	Clamper-bezel M5 for TPC-1770 A1	12
Clamp Screw	1935052000	Screw M5x20L R/S D=9 H=3 (2+) ST Ni	12

Embedded OS

- 20704WX1HS0006
- Img WIN10 LTSC V6.08 B018 TPC-300 High = 20704WX1VS0006
 - Img WIN10 LTSC V6.08 B018 TPC-300 Value

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 Like C1D2 may be required in certain regions/countries. Please contact Advantech for certificate compliance.