TPC-315

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



Features

- Industrial-grade 15" XGA TFT LCD with 70K lifetime and LED backlight
- 8th Gen. Intel[®] Core[™] i3- 8145UE dual-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 5-wire resistive 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-315 touch panel computer is equipped with 15" XGA TFT LED LCD, low-power 8th Gen. Intel[®] Core[™] i3- 8145UE dual-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-315 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.

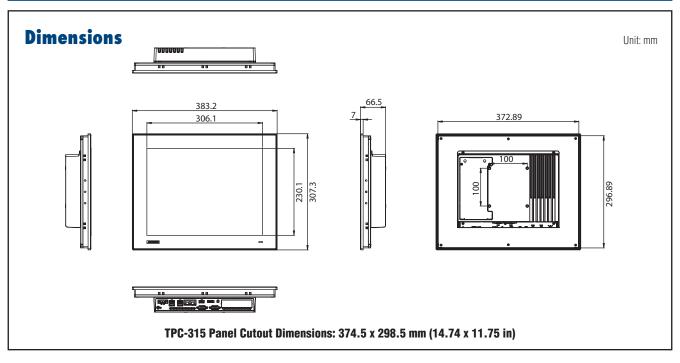
Specifications

General

General		LCD DISplay		
BIOS	AMI UEFI	 Display Type 	XGA TFT LED LCD	
 Certification 	BSMI, CCC, CE, FCC Class A, CB/UL	Display Size	15'' (4:3)	
 Cooling System 	Fanless design	Max. Resoltuion	1024x768	
 Dimensions (W x H x D) 383.2 x 307.3 x 66.5 mm (15.09 x 12.10 x 2.62 in)	 Max Colour 	16.2M	
 Enclosure 	Front bezel: Die cast aluminum alloy	Luminance cd/m ²	300	
	Back housing: Die cast aluminum alloy	 Viewing Angle (H/V°) 	176°/176°	
 Mounting 	VESA Mount, Desktop, Wall or Panel Mount	 Backlight Life 	70,000hrs	
 OS Support 	Win 10, Android, Linux	 Contrast Ratio 	2000:1	
Power Consumption	36.79W (Typical)			
 Power Input 	$24 V_{DC} \pm 20\%$	Touchscreen		
 Watchdog Timer 	15-255 sec (system)	 Lifespan 	36 million touches at a single point	
 Weight (Net) 	5.8kg (12.79lbs)	Light Transmission	Above 75%	
		 Resolution 	Linearity	
System Hardware		 Type 	5-wire analog resistive	
- CPU	8th Gen. Intel® Core™ i3- 8145UE 2.20 GHz Dual-core/		-	
	i5-8365UE 1.60 GHz Quad-core/ i7-8665UE 1.70 GHz	Environment		
	Quad-core processor	 Humidity 	10 ~ 95% RH @ 40°C, noi	n-condensing
 Memory 	Dual channel DDR4 SO-DIMM (Each channel supports	Ingress Protection	IP66-rated front panel	
	up to 32G)	 Operating Temperature 	-10~55°C (14~131°F) (w/d	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	on)
	1 x SIM (M.2 B Key 4G/5G module)			
 Storage Slot 	1 x M.2 M key 2280 (SATA or NVMe PCIe x4)	Rear View		
	1 x M.2 B key 2242 (SATA / PCle)			A. Default HDD/SSD Bay
	3042, 3052 (5G)	АВ С		B. iDoor slot
	1 x 2.5" SSD/ HDD (SATA, Max. 7mm)			C.RS-232/422/485
■ I/O	2 x RS-232/422/485		···	D. Audio line out/ mic in
	1 x USB 2.0			E. Display Port F. USB 2.0
	4 x USB 3.2 (Gen 2) 1 x iDoor slot			G. LAN (10/100/1000)
	1 x Displayport (Video output)		I I I G H I	H. USB 3.2 (Gen 2)
	1 x Audio line out/ mic in	DEF	u n 1	I. Power Receptor

LCD Display

TPC-315



Ordering Information

- 15" XGA Panel PC, Intel® Core™ i3-8145UE 2.20GHz TPC-315-R833A
- Dual-core Processor, 8G DDR4 RAM TPC-315-R853A 15" XGA Panel PC, Intel® Core™ i5-8365UE 1.60GHz
- Quad-core Processor, 8G DDR4 RAM 15" XGA Panel PC, Intel® Core™ i7-8665UE 1.70 GHz TPC-315-R873A
- Quad-core Processor, 8G DDR4 RAM TPC-315-R833A0 15" XGA Panel PC, Intel® Core™ i3-8145UE 2.20GHz Dual-core Processor, 8G DDR4 RAM, without Audio Function
- 15" XGA Panel PC, Intel® Core™ i5-8365UE 1.60GHz TPC-315-R853A0 Quad-core Processor, 8G DDR4 RAM, without Audio Function

Optional Accessories

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

Embedded OS

20703WX9VS0035

Img WIN10LTSC v6.06 B014 TPC-300/TPC-B510 Value

- 20703WX9HS0031
- 20703LEB1S0091
- Coming Soon
- Img WIN10LTSC v6.06 B014 TPC-300/TPC-B510 High
- Android
- Image AdvLinuxTu V2.0.6 for UNO/TPC series

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
 - (US) TOBY-L210 LTE/HSPA+/GPRS, mPCle, Ant, EMEA/ APAC (AU.EU)

2 Port Giga LAN Intel i350 PCIe mini card

Isolated RS-422/485, DB9 x 2, (USB type)

Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1

1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45

802.11 a/b/g/n/ac 2T2R w/BT4.1, Atheros QCA6174A

TOBY-L200 LTE/HSPA+/GPRS, mPCle, Ant, America

2-Port Isolated CANBus mPCle, CANOpen, DB9

Internal locked USB Slot for USB Dongle, mPCle

Isolated RS-232, DB9 x 2, (USB type)

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 WebAccess/HMI WebAccess/HMI WebAccess/HMI WebAccess/HMI WebAccess/HMI WebAccess/HMI WebAccess/HMI				

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.