

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 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 5-wire resistive touch control and IP66-rated front
- Support expansion via Full-size Mini PCle 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

BIOS AMI UEFI

 Certification BSMI, CCC, CE, FCC Class A, CB/UL

 Cooling System Fanless design

Dimensions (W x H x D) 383.2 x 307.3 x 66.5 mm (15.09 x 12.10 x 2.62 in)

 Enclosure Front bezel: Die cast aluminum allov

Back housing: Die cast aluminum alloy

VESA Mount, Desktop, Wall or Panel Mount Mounting

Win 10, Android, Linux OS Support Power Consumption 36.79W (Typical) Power Input $24 V_{DC} \pm 20\%$ Watchdog Timer 15-255 sec (system) Weight (Net) 5.8kg (12.79lbs)

System Hardware

CPU 8th 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

Dual channel DDR4 SO-DIMM (Each channel supports Memory

up to 32G)

1 x 8G DDR4 SO-DIMM (Built-in)

LAN 2 x 10/100/1000BASE-T

Expansion Slot 1 x Full-size mini PCle

1 x SIM (M.2 B Key 4G/5G module)

 Storage Slot 1 x M.2 M key 2280 (SATA or NVMe PCle x4)

1 x M.2 B key 2242 (SATA / PCIe) 3042, 3052 (5G)

1 x 2.5" SSD/ HDD (SATA, Max. 7mm)

I/0 2 x RS-232/422/485

All product specifications are subject to change without notice.

1 x USB 2.0 4 x USB 3.2 (Gen 2) 1 x iDoor slot

1 x Displayport (Video output)

1 x Audio line out/ mic in

LCD Display

Display Type XGA TFT LED LCD **Display Size** 15" (4:3) Max. Resoltuion 1024x768 Max Colour 16.2M Luminance cd/m² 300 Viewing Angle (H/V°) 176°/176° **Backlight Life** 70,000hrs **Contrast Ratio** 2000:1

Touchscreen

 Lifespan 36 million touches at a single point

 Light Transmission Above 75% Resolution Linearity

Type 5-wire analog resistive

Environment

Humidity 10 ~ 95% RH @ 40°C, non-condensing

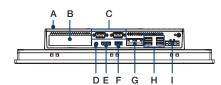
 Ingress Protection IP66-rated front panel

Operating Temperature -10~55°C (14~131°F) (w/o air flow) Storage Temperature

-20~70°C (-4~158°F) Vibration Protection With SSD: 1 Grms (5 ~ 500 Hz)

(Operating, random vibration)

Rear View



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)

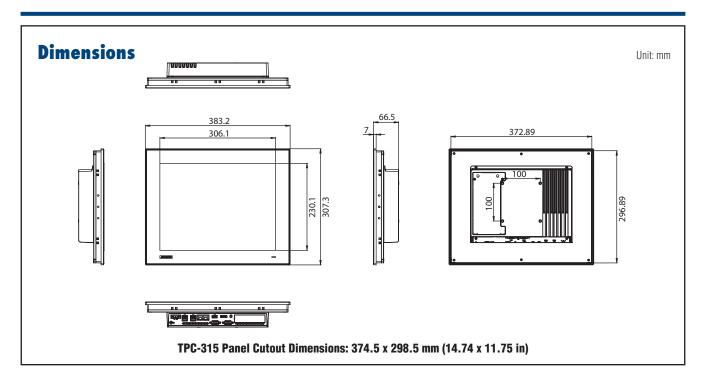
H. USB 3.2 (Gen 2)

I. Power Receptor



Więcej informacji: www.kreski.pl

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

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** Power cable (US) 1.8 M Power cable (EU) 1.8 M **1702002605 1702031801** Power cable (UK) 1.8 M **1700000596-11** Power cable (China/Australia) 1.8 M

Embedded OS

20703WX9VS0035 Img WIN10LTSC v6.06 B014 TPC-300/TPC-B510

20703WX9HS0031 Img WIN10LTSC v6.06 B014 TPC-300/TPC-B510 High - 20703LEB1S0091

- Coming Soon

Image AdvLinuxTu V2.0.6 for UNO/TPC series Android

iDoor Modules

PCM-24D2R4-BE Isolated RS-422/485, DB9 x 2, (USB type) PCM-24D2R2-BE Isolated RS-232, DB9 x 2, (USB type)

PCM-24R1TP-AE 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45 PCM-27D24DI-AE Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1

PCM-24S2WF-BE 802.11 a/b/g/n/ac 2T2R w/BT4.1, Atheros QCA6174A

PCM-26D2CA-AE 2-Port Isolated CANBus mPCle, CANOpen, DB9 Internal locked USB Slot for USB Dongle, mPCle PCM-23U1DG-CE

PCM-24R2GL-AE 2 Port Giga LAN Intel i350 PCle mini card PCM-24S34G-ABE TOBY-L200 LTE/HSPA+/GPRS, mPCle, Ant, America

 PCM-24S34G-EBE TOBY-L210 LTE/HSPA+/GPRS, mPCle, Ant, EMEA/ APAC (AU.EU)

Application Software

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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.