# **TPC-310W**

#### Slim bezel 10.1" WXGA TFT LCD **Thin-Client Terminal with** Intel<sup>®</sup> Atom<sup>®</sup> X6425E / Celeron<sup>®</sup> J6412



#### **Features**

- Industrial-grade 10.1" WXGA TFT LCD with 50K lifetime and LED backlight
- Intel® Elkhart Lake (EHL) Atom® x6425E Quad-core / Celeron® J6412 Quad-core
- · Compact, fanless embedded system with aluminum alloy front bezel
- Wide operating temperature range -20 ~ 60 °C (-4 ~ 140 °F)
- True-flat ultra slim bezel design with IP66 water proof of front panel
- Support high speed M.2 2280 NVMe
- Touchscreen with P-CAP multi-touch control
- Chassis grounding protection

#### Introduction

The TPC-310W thin-client terminal is equipped with 10.1" WXGA TFT LCD, low-power Intel® Atom® x6425E quad-core / Celeron® J6412 quad-core processor with DDR4 SO-DIMM to deliver ultra slim bezel design, fanless system. To enhance the system's durability, TPC-310W features a true-flat touchscreen with IP66-rated front panel, die-cast aluminum alloy front bezel, and P-CAP multi-touch. In addition to supporting a wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F). TPC-310W includes a M.2 2280 NVMe slot for high speed automation application needs.

#### **Specifications**

#### General

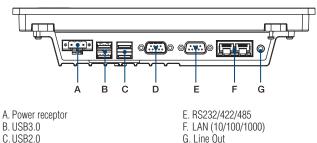
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BIOS	AMI UEFI	<ul> <li>Max. Resolution</li> </ul>	1280 x 800
<ul> <li>Certification</li> </ul>	BSMI, CCC, CE, FCC Class A, UL	<ul> <li>Max. Colors</li> </ul>	16.7M
<ul> <li>Cooling System</li> </ul>	Fanless design	<ul> <li>Luminance cd/m<sup>2</sup></li> </ul>	500
<ul> <li>Dimensions (W x H x</li> </ul>	<b>D)</b> 260 x 179 x 50mm (10.23 x 7 x 1.96 inch)	<ul> <li>Viewing Angle (H/V°)</li> </ul>	178/178
<ul> <li>Enclosure</li> </ul>	Front bezel: Die cast aluminum alloy	<ul> <li>Backlight Life</li> </ul>	50,000 hr
	Back housing: SECC	<ul> <li>Contrast Ratio</li> </ul>	800:1
<ul> <li>Mounting</li> </ul>	VESA Mount (75 x 75), Panel, Wall	Touchscreen	
<ul> <li>OS Support</li> </ul>	Windows 10 Enterprise LTSB	Light Transmission	90% ± 3%
<ul> <li>Security</li> </ul>	TPM 2.0 (built-in)	<ul> <li>Type</li> </ul>	P-CAP multi-touch
Power Consumption	19.2 W (typical)		
Power Input	$24V_{DC} \pm 20\%$	Environment	
<ul> <li>Watchdog Timer</li> </ul>	1 ~ 255 sec (system)	<ul> <li>Relative Humidity</li> </ul>	Operating, 95% RH @
<ul> <li>Weight (Net)</li> </ul>	2.6 kg (5.7lb)		Non-operating, 95%
		Ingress Protection	Front panel: IP66
System Hardware		<ul> <li>Operating Temperature</li> </ul>	· · ·
- CPU	Intel <sup>®</sup> Elkhart Lake	<ul> <li>Storage Temperature</li> </ul>	-30 ~ 70 °C (-22 ~ 1
	Atom <sup>®</sup> x6425E, 2.00 GHz, quad core	<ul> <li>Vibration Protection</li> </ul>	1 Grms (5 ~ 500 Hz)
	Celeron <sup>®</sup> J6412, 2.00 GHz, quad core		
<ul> <li>Memory</li> </ul>	1 x DDR4 SO-DIMM (Up to 16G)	<b>Rear View</b>	
= LAN	2 x 10/100/1000BASE-T	Neur view	
Expansion Slots	1 x M.2 E Key 2230 (USB/PCIe)		
<ul> <li>Storage Slots</li> </ul>	1 x M.2 M Key 2280 (SATA/PCIe)		
= I/O	1 x Power receptor		
	1 x RS-232		
	1 x RS-232/422/485		
	2 x USB3.0		

- **LCD Display**
- Display Type Display Size

D.RS232

- WXGA TFT LED LCD 10.1"

- RH @ 40°C, non-condensing 5% RH @ 60°C, non-condensing
- ~ 140 °F)
- ~ 158 °F)
- Hz) (Operating, random vibration)



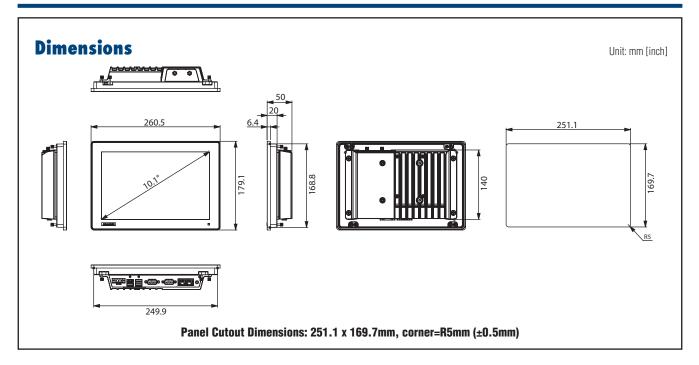
AD\ANTECH Web-Based Operating Terminal

2 x USB2.0

1 x Line Out

All product specifications are subject to change without notice.

#### **TPC-310W**



#### **Ordering Information**

TPC-310W-PE20A

# 10.1" WXGA Panel PC with Intel® Atom® x6425E

- TPC-310W-PJ20A
- 2.00 GHz guad-core (-20 ~ 60 °C)
- 10.1" WXGA Panel PC with Intel® Celeron® J6412 2.00 GHz quad-core (-10 ~ 60 °C)

M.2 AE, Wifi6 + BT5.3, 2T2R,w/Antenna, -40~85°C

WIN10 LTSC V6.09 B008 for TPC-307W/TPC-310W Entry

Image AdvLinuxTu-IOTG\_x64 V4.0.6 for TTPC series

## **Optional Accessories**

- PWR-247-DE  $60W 24 V_{DC} / 2.5A$  power supply Power Cable US Plug 1.8 M
- 1702002600-31
  - 1702002605
- 1702031801
- Power Cable EU Plug 1.8 M Power Cable UK Plug 1.8 M Power Cable China/Australia Plug 1.8 M
- 1700000596-11
- TPC-WLAN-A1

## **Embedded OS**

- 20701WX1ES0005
- 20701U22DS000
- 20701WLE1S0009





# **Application Software**







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.