# **TPC-307W**

## 7" WSVGA TFT LED LCD Thin-Client Terminal with Intel® Elkhart Lake



#### **Features**

- Industrial-grade 7" WSVGA TFT LCD with 50K lifetime and LED backlight
- Intel® Elkhart Lake (EHL) Atom™ X6211E 1.30 GHz, dual core processor with DDR4 SO-DIMM
- · Compact, fanless embedded system with aluminum alloy front bezel
- Wide operating temperature range -20 ~ 60 °C (-4 ~ 140 °F)
- True-flat, IP66-rated front panel
- Front-facing LED indicators to show operating status
- True-flat touchscreen with P-CAP multi-touch control
- Supports AC/DC input with optional power adapter
- Chassis grounding protection



## Introduction

The TPC-307W thin-client terminal is equipped with a 7" WSVGA TFT LCD, low-power Intel® Elkhart Lake (EHL) Atom™ X6211E 1.30 GHz, dual core processor with DDR4 SO-DIMM to deliver high-performance computing in a compact, fanless system. To enhance the system's durability, TPC-307W 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-307W includes a full-size mini PCle slot for extending the system functionalities to satisfy diverse automation application needs.

# **Specifications**

#### General

BIOS AMI UEFI

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

 Cooling System Fanless design

Dimensions (W x H x D) 205 x 146 x 56mm (8 x 5.98 x 2.2 inch)

Enclosure Front bezel: Die cast aluminum alloy

Back housing: SECC

VESA Mount (75 x 75), Panel, Wall Mounting

Windows 10 Enterprise LTSB OS Support

Security TPM 2.0 (built-in)

 Power Consumption 19.2 W (typical) Power Input  $24V_{DC} \pm 20\%$ 

 Watchdog Timer 1 ~ 255 sec (system)

Weight (Net) 1.5 kg (3.3 lb)

#### **System Hardware**

- CPU Intel® Elkhart Lake (EHL)

Atom™ X6211E 1.30 GHz, dual core

Memory 1 x DDR4 SO-DIMM (Up to 16G)

2 x 10/100/1000BASE-T LAN

Expansion Slots 1 x M.2 E Key 2230 (USB/PCIe)

1 x M.2 M Key 2280 (\*SATA) Storage Slots \*Only Support M.2 2280 SATA SSD

I/0 1 x Power receptor

All product specifications are subject to change without notice.

1 x RS-232

1 x RS-232/422/485

2 x USB3.0

2 x USB2.0

1 x Line Out

#### **LCD Display**

Display Type VGA TFT LED LCD

Display Size

Max. Resolution 1024 x 600

Max. Colors 16.7M

Luminance cd/m<sup>2</sup> 500 160/140

Viewing Angle (H/V°)

**Backlight Life** 50.000 hr

**Contrast Ratio** 800:1

#### **Touchscreen**

Light Transmission  $90\% \pm 3\%$ 

Type P-CAP multi-touch

#### **Environment**

 Relative Humidity Operating, 95% RH @ 40°C, non-condensing

Non-operating, 95% RH @ 60°C, non-condensing

 Ingress Protection Front panel: IP66

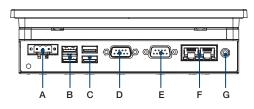
Operating Temperature  $-20 \sim 60 \,^{\circ}\text{C} \, (-4 \sim 140 \,^{\circ}\text{F})$ 

-30 ~ 70 °C (-22 ~ 158 °F) Storage Temperature

Vibration Protection With M.2 2242: 1 Grms (5 ~ 500 Hz)

(Operating, random vibration)

## **Rear View**



A. Power receptor

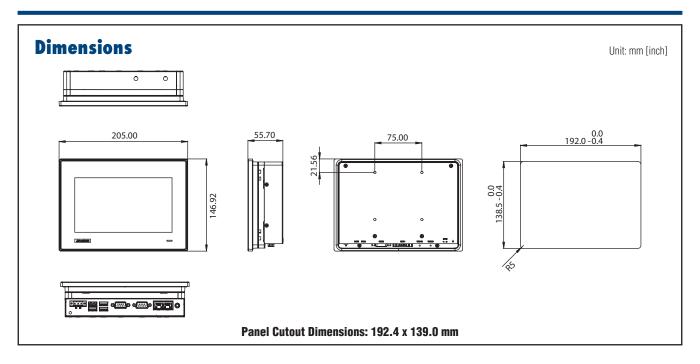
B. USB3.0

C. USB2.0

D. RS232

E. RS232/422/485 F. LAN (10/100/1000)

G. Line Out



# **Ordering Information**

• **TPC-307W-PE20A** 7" WSVGA Panel PC, Atom X6211E 1.3 GHz

# **Optional Accessories**

PWR-247-DE
1702002600
1702002605
1702031801
60W 24 V<sub>DC</sub> /2.5A power supply
Power Cable US Plug 1.8 M
Power Cable EU Plug 1.8 M
Power Cable UK Plug 1.8 M

• **1700000596-11** Power Cable China/Australia Plug 1.8 M

■ **TPC-WLAN-A1** M.2 AE, Wifi6 + BT5.3, 2T2R,w/Antenna, -40~85°C

### **Embedded OS**

20701WX1ES0005
20701WLE1S0009
20701U22DS0004
WIN10 LTSC V6.09 B005 for TPC-307W Entry
Img WIN11 LTSC x64 v7.01 B014 TPC-3xxW Entry
Image AdvLinuxTu-IOTG\_x64 V4.0.6 for TTPC series

# **Application Software**



HMINavi Designer is a powerful and intuitive software program for creating comprehensive human machine interface solutions. HMINavi Designer is an easily integrated development tool with proven value in many application fields. The features include solution-oriented screen objects, high-end vector graphics, Windows fonts for multi-language applications, receipts, alarm functions, as well as data and operation logging capabilities. HMINavi Designer also supports utility programs such as Data Transfer Helper (DTH), recipe editor, and text editor. The HMINavi Designer software is free download for usage, user can directly download before purchase. With online/offline simulation user can directly connect to PLC controller to ensure solid connection and screen design without any issue. HMINavi Runtime, a component of HMINavi, guarantees the reliability and performance of Open Platform because of the minimum system overhead, high data communication rates, sub-second screen switching, and 24/7 operation. Additionally, Advantech's fast response software team is continually adding new functions, communication drivers, and solutions to the software to meet dynamic needs.

## **TPC-307W Photo**









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.