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
- Supports Advantech's WISE-PaaS/RMM remote management software



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

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

 Cooling System Fanless design

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

Front bezel: Die cast aluminum alloy Enclosure

Back housing: SECC

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

Windows 10 Enterprise LTSB OS Support

- Power Consumption 19.2 W (typical) $24V_{DC}\pm20\%$ Power Input 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 1 x DDR4 SO-DIMM (Up to 16G)

Memory - LAN 2 x 10/100/1000BASE-T

Expansion Slots

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

Storage Slots 1 x M.2 M Key 2242/2280 (SATA/PCIe)

1 x Power receptor I/0

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/m² 500

Viewing Angle (H/V°) 160/140 **Backlight Life** 50.000 hr **Contrast Ratio** 800:1

Touchscreen

Light Transmission $90\% \pm 3\%$ Type P-CAP multi-touch

Environment

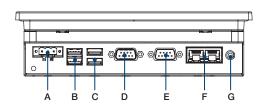
 Humidity 10 ~ 95% RH @ 40 °C, non-condensing

 Incress Protection Front panel: IP66 Operating Temperature $-20 \sim 60 \,^{\circ}\text{C} \, (-4 \sim 140 \,^{\circ}\text{F})$

Storage Temperature -30 ~ 70 °C (-22 ~ 158 °F) With M.2 2242: 1 Grms (5 ~ 500 Hz) **Vibration Protection**

(Operating, random vibration)

Rear View

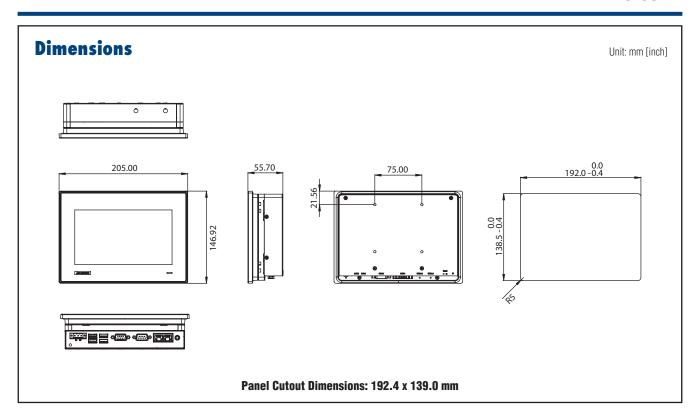


A. Power receptor B. USB3.0

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 60W 24 V_{DC} /2.5A power supply
1702002600 Power Cable US Plug 1.8 M
1702002605 Power Cable EU Plug 1.8 M
1702031801 Power Cable UK Plug 1.8 M

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

Embedded OS

• Win 10 LTSC Img WIN10 LTSC TPC-3xx(W) Entry

Application Software

Application software	
WebAccess/SCADA	Advantech WebAccess/SCADA is a 100% browser-based IloT 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.

