TPC-310W

10.1" WXGA TFT LED LCD Thin-Client Terminal with Intel® Elkhart Lake

Preliminary

Features

- Industrial-grade 10.1" WXGA TFT LCD with 50K lifetime and LED backlight
- Intel® Elkhart Lake (EHL) Atom™ X6425E 2.00 GHz, quad 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 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
- Supports AC/DC input with optional power adapter
- Chassis grounding protection
- Supports Advantech's WISE-PaaS/RMM remote management software



Introduction

The TPC-310W thin-client terminal is equipped with 10.1" WXGA TFT LCD, low-power Intel® Elkhart Lake (EHL) Atom™ X6425E 2.30 GHz, 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

■ BIOS AMI UEFI

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

• Cooling System Fanless design

Dimensions (W x H x D) 260 x 179 x 50mm (10.23 x 7 x 1.96 inch)

• Enclosure Front bezel: Die cast aluminum alloy

Back housing: SECC

Mounting
OS Support
Security
VESA Mount (75 x 75), Panel, Wall
Windows 10 Enterprise LTSB
TPM 2.0 (built-in)

Power Consumption 19.2 W (typical)
Power Input 24V_{DC} ± 20%
Watchdog Timer 1 ~ 255 sec (system)
Weight (Net) 2.6 kg (5.7lb)

System Hardware

■ CPU Intel® Elkhart Lake (EHL)

Atom™ x6425E 2.00 GHz, quad core

Memory 1 x DDR4 SO-DIMM (Up to 16G)
LAN 2 x 10/100/1000BASE-T

Expansion Slots 1 x M.2 E Key 2230 (USB/PCle)
Storage Slots 1 x M.2 M Key 2242/2280 (SATA/PCle)

■ 1/0 1 x Power receptor 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
WXGA TFT LED LCD

Display Size 10.1"
Max. Resolution 1280 x 800
Max. Colors 16.7M
Luminance cd/m² 500
Viewing Angle (H/V°) 178/178
Backlight Life 50,000 hr
Contrast Ratio 800:1

Touchscreen

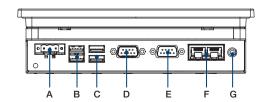
Light Transmission
Type
90% ± 3%
P-CAP multi-touch

Environment

• **Humidity** $10 \sim 95\%$ RH @ 40 °C, non-condensing

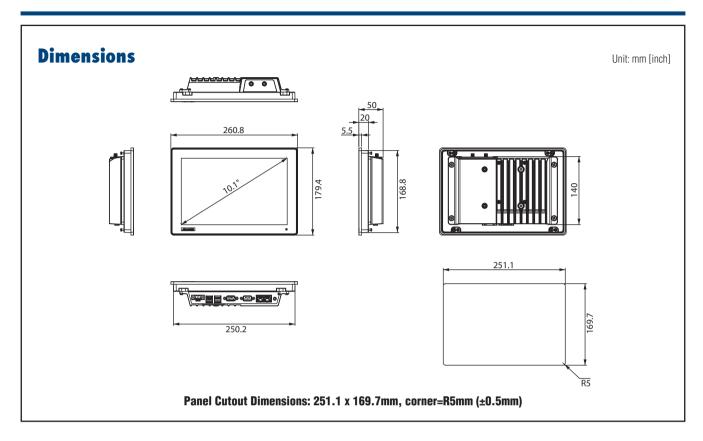
Ingress Protection
Operating Temperature
Storage Temperature
Vibration Protection
Front panel: IP66
-20 ~ 60 °C (-4 ~ 140 °F)
-30 ~ 70 °C (-22 ~ 158 °F)
With M.2 2242: 1 Grms (5 ~ 500 Hz)
(Operating, random vibration)

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-310W-PE20A** 10.1" WXGA Panel PC, Atom X6425E 2 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 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