# TPC-155H

## 15" XGA TFT LED LCD Thin-Client Terminal with Intel<sup>®</sup> Atom<sup>™</sup> Processor and UL Class 1 Division 2



### **Features**

- Industrial-grade 15" XGA TFT LCD with 70K lifetime and LED backlight
- Intel® Atom™ E3845 1.91 GHz quad-core processor with 4 GB DDR3L SDRAM and 64G SSD
- In-cabinet Design with True-flat touchscreen with 5-wire resistive touch control and IP66-rated front panel
- UL C1D2 certified HMI for Hazardous environments
- Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)
- Front-facing LED indicators to show operating status
- Advantech iDoor technology and SSD/HDD bay
- Compact, fanless system with aluminum alloy front bezel and chassis grounding protection
- Supports VESA mount (100 x 100 mm)
- Supports Advantech's SNMP Subagent software
- Supports Advantech's WISE-PaaS/RMM remote management software

## Introduction

The TPC-155H thin-client terminal is equipped with a 15" XGA TFT LED LCD, low-power Intel® Atom™ E3845, 1.91GHz, quad-core processor, 4 GB DDR3L SDRAM and 64 GB SSD, TPC-155H delivers high-performance computing in a compact, fanless system. For enhanced durability to satisfy diverse industrial automation applications, TPC-155H supports a wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F) and features a true-flat 5-wire resistive touchscreen with IP66-rated front panel, die-cast aluminum alloy front bezel, and 100 x 100 VESA mount kit. TPC-155H has been C1D2 certified for the applications in hazardous environments. Moreover, with the provision of a full-size mini PCIe slot that supports mSATA signals and Advantech's iDoor technology, TPC-155H can be easily expanded to provide additional I/O ports, isolated digital I/O, fieldbus protocols, MRAM, and 3G/GPS/GPRS/Wi-Fi communication capabilities.

## **Specifications**

#### General

BIOS AMI UEFI BSMI, CCC, CE, FCC Class A, UL

Front bezel: Die-cast aluminum alloy

Microsoft® WES7 (32/64-bit), Windows 7 (32/64-bit),

Intel® Atom™ E3845, 1.91 GHz, quad core 1 x SODIMM with 4 GB DDR3L SDRAM (up to 8 GB)

1 x Full-size mini PCIe with mSATA support

2 x Intel® I210; 10/100/1000 BASE-T

Back housing: SECC

Desktop/wall/panel

50.8W (typical)

24 Vpc +/- 20%

4.4 kg (9.7 lb)

1 ~ 255 sec (system)

Windows 10 Enterprise LTSB

- Certification
- **Cooling System** Fanless design Dimensions (W x H x D) 383.2 x 307.3 x 55.9 mm (15.09 x 12.10 x 2.2 in)
- . Enclosure
- Mount Options
- . **OS Support**
- Power Consumption
- Power Input
- Watchdog Timer
- Weight (Net)

#### System Hardware

- CPU
- Memorv
- LAN
- **Expansion Slots**
- Storage
- I/0

1 x 2.5" SATA SSD, default 64 GB SSD 1 x RS-232 1 x RS-232/422/485 1 x USB 3.0 3 x USB 2.0 1 x iDoor slot

15'

1024 x 768

300 cd/m<sup>2</sup>

176/176

70,000 hr

2000.1

16.2M

XGA TFT LED LCD

#### LCD

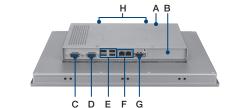
- Display Type
- **Display Size**
- Max. Resolution
- Max. Colors .
- Luminance
- Viewing Angle (H/V°)
- **Backlight Life**
- **Contrast Ratio**

#### Touchscreen Lifespan

- Light Transmission
- Resolution
- Туре

#### **Environment**

- Humidity
- Ingress Protection
- **Operating Temperature**
- **Storage Temperature** Vibration Protection



A. HDD/SSD bay B. iDoor slot C.RS-232 D.RS-232/422/485 E. USB 2.0 and 3.0 F. LAN (10/100/1000) G. Power input H. Antenna port

## **Ordering Information**

- TPC--155H-E3BE
- 15" XGA panel PC with Intel® Atom™ E3845, 1.91 GHz quad-core CPU, 4 GB DDR3L SDRAM, 64 GB SSD. and true-flat touchscreen, UL C1D2 certified

AD\ANTECH **Industrial Thin-Client Terminals** 

All product specifications are subject to change without notice.

95% RH @ 40 °C, non-condensing IP66-rated front panel -20 ~ 60 °C (-4 ~ 140 °F) -30 ~ 70 °C (-22 ~ 158 °F)

36 million touches at a single point

- With SSD: 1 Grms (5 ~ 500 Hz)
  - (operating, random vibration)

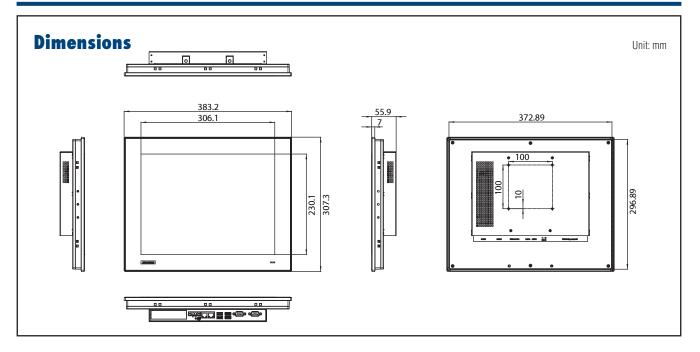
Above 75%

5-wire analog resistive

Linearity

**Rear View** 

## **TPC-155H**



## **Optional Accessories**

PWR-247-DE

60 W, 24 VDC /2.5A power supply Power cable (US) 1.8 M

- 1702002600
- 1702002605
- 1702031801
- Power cable (EU) 1.8 M Power cable (UK) 1.8 M
- 1700000596-11 Power cable (China/Australia) 1.8 M

## **iDoor Modules**

- PCM-26D2CA-AE SJA1000 CANbus module with CANopen and 2 x DB9 PCM-26D1DB-MAE Hilscher netX100 fieldbus module with PROFIBUS and
- 1 x DB9
- PCM-27D24DI-AE Digital I/O module with 16 DI/8 DO, isolation
- protection, and 1 x DB37 PCM-24D2R4-BE
  - OXPCIe-952 UART with isolated RS-422/485 and 2 x DB9 OXPCIe-952 UART with isolated RS-232 and 2 x DB9

2-Port GigaLAN Intel® i350 PCIe mini card

Intel® 82574L, GbE, IEEE 1588 PTP, 1 x RJ45

Hilscher netX100 fieldbus mPCle with EtherCAT,

- PCM-24D2R2-BE
- PCM-24R2GL-AE
- PCM-24R1TP-AE PCM-262R2EC-MAE
- 2 x RJ45, Master PCM-27J3AU-AE 3-Port audio stereo with mPCIe and 3.5-mm jack
- PCM-29R1TX-AE 1-Port iLink(TX) long-distance display transmitter with
  - RJ45

## **Embedded OS**

- 20703WE7PS0027
  - TPC-xx51T(B) WS7P x86 MUI Image V4.19
- 20703WE7PS0028
- 20703WX9ES0028

- TPC-xx51T(B) WS7P x64 MUI Image V4.19
  - Img W10 LTSC 2019 V6.05 B027 TPC-1x5H-ExBE Entry

## **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 WebAccess/HMI WebAccess/HMI WebAccess/HMI WebAccess/HMI WebAccess/HMI WebAccess/HMI WebAccess/HMI		

## **Packing List**

Item	Part No.	Description	Qty	
Grounding cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1pcs	
Plug-In Block	1656303100	HOUSING 5.08MM 3P 90D(M) 2ESDVM-03P	1pcs	
Manual	2003T51B00	User manual SC for TPC-xx51 B 1st ed	1pcs	
Warranty	2190000902	CARDBOARD-WARRANTY REV. A0	1pcs	
VESA Screw	1930005204	Screw M4x10L R/S DH=6.8x2.50 + ST ZBK PL	4pcs	
M-SATA&WIFI Screw	1930000198	Screw M2x4L F/S D=4.3 H=0.8 (1+) ST Ni NK	3pcs	
HDD Screw	19330304A0	Screw M3*4L RF/S D=6.9 H=1.9 + ST Ni NK	4pcs	
Idoor Screw	1930002161	Screw M3x4.0(10.0)L R/S D=5.3 H=2 2+ ST BZn	2pcs	
HDD WASHER	1990032871S000	Transistor Washer_Safety 1T TW-39 for PPC-3100	4pcs	
Clamp	1962055040	CLAMPER PPC-55 M1632611 A0	10pcs	
Clamp Screw	1935042520	Screw M4x25L R/S D=8.3 H=2.5 (2+) ST BZn	8pcs	
China RoHS	202KAKMC00	China rohs for AKMC model name 1st ed	1pcs	

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.