# TPC-71W

## 7" Touch Panel Computer with ARM Cortex<sup>™</sup>-A9 Processor



## Features

- NXP<sup>®</sup> ARM<sup>®</sup> Cortex<sup>™</sup>-A9 i.MX6 dual/quad-core processor
- 7" 16:9 LCD with multi-touch P-CAP and true-flat IP66-rated front panel
- Up to 2 GB DDR3L RAM and 8 GB eMMC storage onboard
- 10/100/1000 Mbps LAN with optional IEEE 802.3at PoE-PD module support

WSVGA TFT LCD

7 in (177.8 mm)

1024 x 600

400 cd/m<sup>2</sup>

50.000 hrs

Anti-glare

10 Points

800.1

Yes

170/170

16.7M

- 1 mb FRAM backup memory for unexpected power interruptions
- Serial port with  $120\Omega$  termination resistor that supports the CAN 2.0B protocol and offers a programmable bit rate of up to 1 Mb/sec
- Embedded browser and VNC tool for rapid Web App development
- Supports Linux Yocto, Linux Ubuntu, Android and WEC7 •
- Optional NFC and mPCIe expansion modules .
- Compatible with VESA and panel mounting
- Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)

## Introduction

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TPC-71W is a compact touch panel computer equipped with an NXP<sup>®</sup> i.MX 6 Cortex™-A9 dual/quad-core processor, 7" TFT LCD display, multi-touch glass sensor, 2 GB of DDR3L RAM, and 8 GB of eMMC storage. To ensure stable operation in harsh industrial environments, TPC-71W supports a wide operating temperature range (-20 ~ 60 °C /-4 ~ 140 °F) and VESA mounting and features an IP66-rated front panel that protects against water and dust ingress.

For web-based operations, TPC-71W offers 10/100/1000 Mbps LAN that supports the IEEE 802.3 PoE-PD standard. The inclusion of VNC Tools and browsers enable rapid Web application development and easy configuration. Finally, TPC-71W supports various OS including Linux Yocto, Linux Ubuntu with full QT graphics, and Android to ensure easy deployment for diverse applications.

## **Specifications**

#### General

#### Certification

- Dimensions (W x H x D) 205 x 146.92 x 46 mm (8.07 x 5.78 x 1.81 in)
- **Cutout Dimensions**
- **OS Support**
- Power Input
- **Power Consumption**
- **Unit Enclosure**
- Mount Options
- Weight (Net)

#### System Kernel

Backup Memory

CPU

Storage

Memorv NXP® ARM® Cortex™-A9 i.MX6 dual/quad-core 1.0 GHz processor FRAM 1 MB Dual core: 1 GB DDR3L RAM

CE, BSMI, CCC, UL, FCC Class A

192 x 138.5 mm (7.56 x 5.45 in)

Windows Embedded Compact 7

Die-cast aluminum alloy front bezel PC + ABS rear housing

24V<sub>DC</sub> ±20, 12V by project

9W (typical)

Panel and VESA

1.2 kg (2.65 lb)

Linux Yocto 2.1, Linux Ubuntu 16.04, Android 6 and

Quad core: 2 GB DDR3L RAM 8 GB eMMC onboard

#### **Communication Interface**

AD\ANTECH

- 1 x DB9 selectable mode for RS-232/485 and Serial Port CAN 2.0 B LAN
- 1 x RJ45 with 10/100/1000 Mbps Optional module to support PoE PD Others 1 x USB 2.0 Type-B Client
  - 2 x USB 2.0 Type-A Host
    - 1 x Micro SD

### LCD Panel

- Panel Type
- Panel Size
- Max. Resolution
- Max. Colors
- Luminance
- Viewing Angle (H/V) Backlight Life
- Treatment **Contrast Ratio**
- Front Panel LED Indicator

#### Touchscreen

- **Touch Points** .
- Liaht **Pencil Hardness**
- Type

#### Environment

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

## **Ordering Information**

- TPC-71W-N10PA Touch Panel Computer, Cortex<sup>™</sup>-A9 Dual Core CPU, 1GB DDR3L. 8G eMMC. Ubuntu 16.04
- TPC-71W-N21PA
- TPC-71W-N21WA
- TPC-71W-N21AA

≧7H Projected capacitive (P-CAP) touch

90% RH @ 40 °C, non-condensing IP66-rated front panel 2 Grms random vibration (5 ~ 500 Hz) during operation (compliant with IEC60068-2-64) 10 G shock under 11 ms operation (compliant with

7" Touch Panel Computer, Cortex™-A9 Quad Core CPU.

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2GB DDR3L, 8G eMMC, Ubuntu 16.04

2GB DDR3L, 8G eMMC, WEC7

2GB DDR3L, 8G eMMC, Android 6

#### Last undated: 16-Jan-2023

Transmission above 85% -20 ~ 60 °C (-4 ~ 140 °F) -30 ~ 70 °C (-22 ~ 158 °F)

- Shock Protection

IEC60068-2-27)

## **TPC-71W**



## **Optional Accessories**

- 98R3T71W000
- 96PSA-A60W24T2
- PoE PD add-on module Adaptor A/D 100 ~ 240V 60W 24V C14 cord-end
- 1702002600

terminal Power cable with US plug, 1.8 M Power cable with EU plug, 1.8 M

- 1702002605
- . 1702031801 • 1702031836

Power cable with UK plug, 1.8 M Power cable with China/Australia plug, 1.8 M

## **PoE Module Expansion**





## External I/O





## **Packing List**

Item	Part No.	Depiction	Qty
Clamp	1960059571T000	Clamp for Panel Mount for WOP-3000T	6
Screw	1935043010	Screw M4x30L R/S D=7 H=2.6 (2+) ST Zmc-3	6
Screw	1930001024	Screw M4*8L R/S D=8.9 H=2.5 + ST Ni NK	4
Screw	1930000501	Screw M4x10L R/S D=7 H=2.6 (2+) ST Ni NK	4
Warranty Card	2190000902	CARDBOARD-WARRANTY REV. A2	1

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.