TPC-71W

7" Touch Panel Computer with ARM Cortex[™]-A9 Processor

NEW 192 ŝ.

Features

- NXP[®] ARM[®] Cortex[™]-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
- 1 mb FRAM backup memory for unexpected power interruptions
- Serial port with 120Ω 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

TPC-71W is a compact touch panel computer equipped with an NXP[®] 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

- CPU

NXP® ARM® Cortex™-A9 i.MX6 dual/quad-core 1.0 GHz processor FRAM 1 MB Dual core: 1 GB DDR3L RAM Quad core: 2 GB DDR3L RAM 8 GB eMMC onboard

Storage

Communication Interface

•	Serial Port	1 x DB9 selectable mode for RS-232/485 and	
		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**
- Light
- Pencil Hardness
- Type

Environment

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

Ordering Information

- TPC-71W-N10PA
- TPC-71W-N21PA
- TPC-71W-N21WA
- TPC-71W-N21AA

Transmission above 85% ≥7H Projected capacitive (P-CAP) touch

- -20 ~ 60 °C (-4 ~ 140 °F) -30 ~ 70 °C (-22 ~ 158 °F) 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 IEC60068-2-27)
- 7" Touch Panel Computer. Cortex™-A9 Dual Core CPU. 1GB DDR3L, 8G eMMC, Ubuntu 16.04
- 7" Touch Panel Computer, Cortex™-A9 Quad Core CPU,
- 2GB DDR3L, 8G eMMC, Ubuntu 16.04 7" Touch Panel Computer, Cortex™-A9 Quad Core CPU, 2GB DDR3L, 8G eMMC, WEC7
- 7" Touch Panel Computer, Cortex™-A9 Quad Core CPU, 2GB DDR3L, 8G eMMC, Android 6

Anti-glare 800:1 Yes 10 Points

WSVGA TFT LCD

7 in (177.8 mm)

1024 x 600

400 cd/m²

50,000 hrs

170/170

16.7M

Die-cast aluminum alloy front bezel PC + ABS rear housing Panel and VESA 1.2 kg (2.65 lb)

CE. BSMI. CCC. UL. FCC Class A

192 x 138.5 mm (7.56 x 5.45 in)

Windows Embedded Compact 7

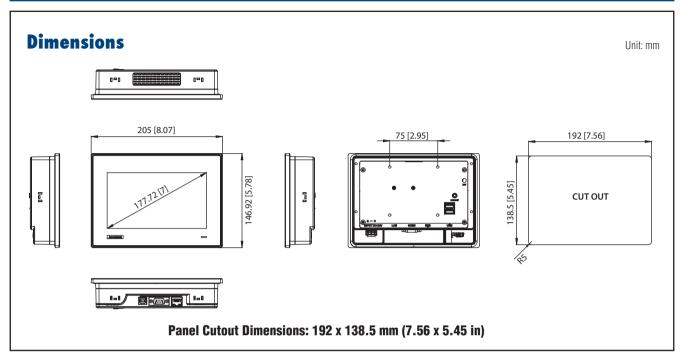
24Vpc ±20, 12V by project

Linux Yocto 2.1. Linux Ubuntu 16.04. Android 6 and

9W (typical)

- Backup Memory Memory

TPC-71W



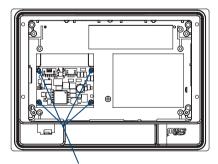
Optional Accessories

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

Power cable with US plug, 1.8 M

- 1702002600
- 1702002605
- Power cable with EU plug, 1.8 M Power cable with UK plug, 1.8 M Power cable with China/Australia plug, 1.8 M • 1702031801
- 1702031836

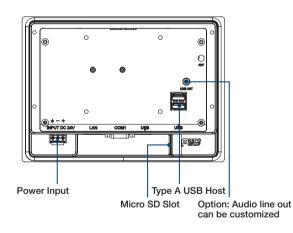
PoE Module Expansion

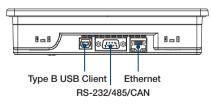


Screw M2.5x4L

Packing List

External I/O





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.