TPC-71W

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

NEW

Features

- NXP® ARM® Cortex™-A9 i.MX6 dual/quad-core processor
- 7" 16:9 WSVGA LCD with multi-touch P-CAP control 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 IEEE 802.3at PoE-PD 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 and Android
- 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**: CE, BSMI, CCC, UL, FCC Class A
- **Dimensions (W x H x D)**: 205 x 146.92 x 46 mm (8.07 x 5.78 x 1.81 in)
- **Cutout Dimensions**: 192 x 138.5 mm (7.56 x 5.45 in)
- **OS Support**: Linux Yocto 2.1, Linux Ubuntu 16.04 and Android 6
- **Power Input**: $24V_{DC}$ ±20%
- **Power Consumption**: 9W (typical)
- **Unit Enclosure**: Die-cast aluminum alloy front bezel
  PC + ABS rear housing
- **Mount Options**: Panel and VESA
- **Weight (Net)**: 1.2 kg (2.65 lb)

System Kernel

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

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 LAN supporting IEEE 802.3af PoE /802.3at PoE+ PD standard
- **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**: WSVGA TFT LCD
- **Panel Size**: 7 in (177.8 mm)
- **Max. Resolution**: 1024 x 600
- **Max. Colors**: 16.7M
- **Luminance**: 400 cd/m²
- **Viewing Angle (H/V)**: 170/170
- **Backlight Life**: 50,000 hrs
- **Treatment**: Anti-glare
- **Contrast Ratio**: 800:1
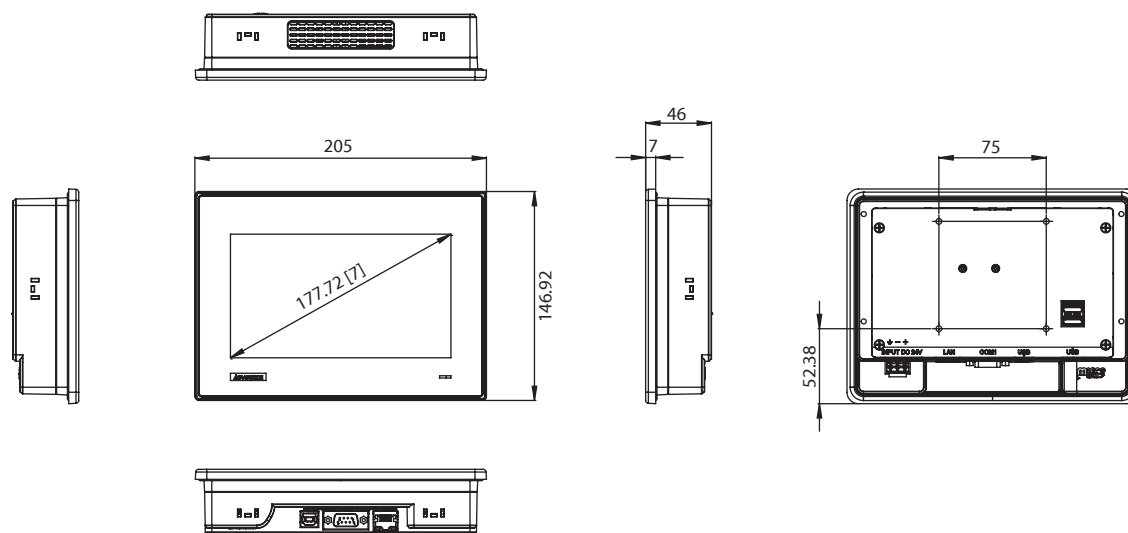- **Front Panel LED Indicator**: Yes

Touchscreen

- **Touch Points**: 10 Points
- **Light**: Transmission above 85%
- **Pencil Hardness**: ≧7H
- **Type**: Projected capacitive (P-CAP) touch

Environment

- **Operating Temperature**: -20 ~ 60 °C (-4 ~ 140 °F)
- **Storage Temperature**: -30 ~ 70 °C (-22 ~ 158 °F)
- **Humidity**: 10 ~ 90% RH @ 40 °C, non-condensing
- **Ingress Protection**: IP66-rated front panel
- **Vibration Protection**: 2 Grms random vibration (5 ~ 500 Hz) during operation (compliant with IEC60068-2-64)
- **Shock Protection**: 10 G shock under 11 ms operation (compliant with IEC60068-2-27)

Dimensions

205

46

7

75

177.72 [7]

146.92

52.38

INPUT DC 24V   LAN   COM1   USB   USB   micro SD

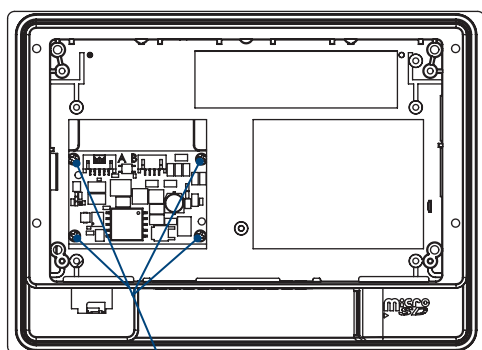**Panel Cutout Dimensions: 192 x 138.5 mm (7.56 x 5.45 in)**

Ordering Information

- **TPC-71W-N10PA**   7" Touch Panel Computer, WSVGA, Cortex™-A9 Dual Core CPU, 1GB DDR3L
- **TPC-71W-N21PA**   7" Touch Panel Computer, WSVGA, Cortex™-A9 Quad Core CPU, 2GB DDR3L
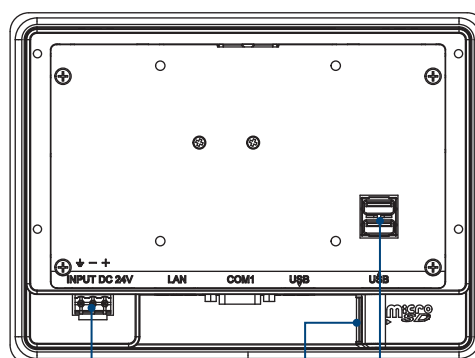
Optional Accessories

- **96PSA-A60W24T2**   Adaptor A/D 100 ~ 240V 60W 24V C14 cord-end terminal
- **1702002600**   Power cable with US plug, 1.8 M
- **1702002605**   Power cable with EU plug, 1.8 M
- **1702031801**   Power cable with UK plug, 1.8 M
- **1702031836**   Power cable with China/Australia plug, 1.8 M
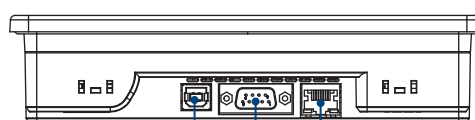
PoE Module Expansion

Screw M2.5x4L

External I/O

INPUT DC 24V   LAN   COM1   USB   USB   micro SD

Power Input

Type A USB Host

Micro SD Slot

Type B USB Client   Ethernet

RS-232/485/CAN

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