TPC-200W

10.1"/15.6" Compact Edge AI Smart Panel with Qualcomm® QCS6490 Processor



Features

- Powered by Qualcomm QCS6490 with 8-core Kryo 670 CPU for high-performance edge computing
- 10.1" WXGA / 15.6" FHD TFT LCD with 500 nits brightness and 50,000 hr backlight life
- Projected Capacitive Multi-touch (P-CAP) with >85% light transmission
- Wide operating temperature range -10 ~ 50 °C (14 ~ 122 °F)
- True-flat ultra slim bezel design with IP66 water proof of front pane
- Rich Wireless Expansion: M.2 Key-B for 4G/5G and M.2 Key-E for Wi-Fi / Bluetooth
- Supports Multiple OS Platforms: Yocto Linux, Windows 11 IoT, Android
- Flexible Installation Options: Panel mount and VESA mount

Introduction

Powered by the Qualcomm® QCS6490 processor, the TPC-200W features an advanced 8-core Kryo™ 670 CPU architecture with clock speeds up to 2.7 GHz, delivering exceptional performance for real-time control, edge computing, and AI-enhanced industrial applications. Equipped with 10.1" WXGA and 15.6" FHD LCD options offering 500-nit brightness and P-CAP multi-touch, it provides clear visuals and smooth operation across various industrial environments.

Built with a rugged die-cast aluminum front bezel, IP66-rated front protection, and a fanless thermal design, the TPC-200W ensures reliable operation in harsh conditions with a wide operating temperature range of -10 ~ 50 °C. Supporting Yocto Linux, Windows 11 IoT, and Android, the TPC-200W offers a flexible and efficient platform ideal for smart factory deployment, equipment control, and industrial automation applications.

Specifications

General

- **Certification**: CE, BSMI, CCC, UL, FCC Class A
- **Dimensions (W x H x D)**: TPC-210W: 260.5 x 179.1 x 50 mm; TPC-215W: 395.7 x 245.1 x 55 mm
- **Cutout Dimensions**: TPC-210W: 251.5 x 169.7 mm; TPC-215W: 386.8 x 236.2 mm
- **OS Support**: Yocto Linux, Windows 11 IoT
- **Power Input**: $24V_{DC}$ ±10%
- **Power Consumption**: 10": 17.03W (typ.); 28.03W (max.) 15.6": 23.64W (typ.); 32.08W (max.)
- **Unit Enclosure**: Front bezel: aluminum alloy Back housing: SECC
- **Mount Options**: Panel and VESA
- **Weight (Net)**: 10.1": 5.1 kg 15.6": 6 kg

System Kernel

- **CPU**: QCS6490 8x Kryo 670 CPU from 1.9 up to 2.7 GHz
- **Memory**: 8 GB LPDDR5 (On-board)
- **Storage**: 128GB UFS

Communication Interface

- **Serial Port**: 1 x RS-232/422/485 (COM 1); 1 x selectable mode for RS-485 and CAN 2.0B (COM 2)
- **LAN**: 2 x RJ45 (10/100/1000 Mbps)
- **Others**: 2 x USB 3.0 Type-C Host 2 x USB 3.0 Type-A Host 1 x USB 2.0 (Micro USB Type B) (Internal) 1 x M.2 Key-B 3052 (4G/5G) 1 x M.2 Key-E 2230(WIFI/BT)

LCD Panel

	TPC-210W	TPC-215W
Panel Size	10.1"	15.6"
Panel Type	WXGA TFT LED LCD	FHD TFT LED LCD
Aspect Ratio	16:10	16:9
Max. Resolution	1280 x 800	1920 x 1080
Max. Colors	16.7M	16.2M
Luminance (nits)	500ntis	500ntis
Viewing Angle (H/V)	178°/178°	178°/178°
Backlight Life	50,000 hr	50,000 hr
Contrast Ratio	800:1	800:1
LED Indicator	Yes	Yes

Touchscreen

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

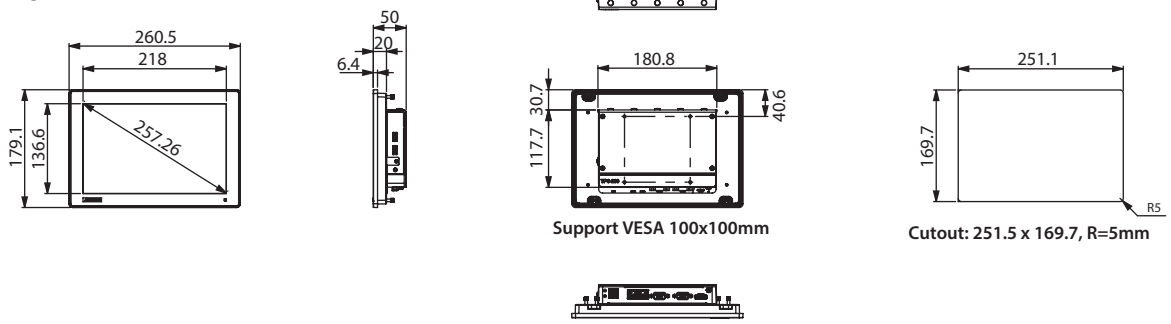
Environment

- **Operating Temperature**: -10 ~ 50 °C (14 ~ 122 °F)
- **Storage Temperature**: -20 ~ 60 °C (-4 ~ 140 °F)
- **Humidity**: 95% 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)

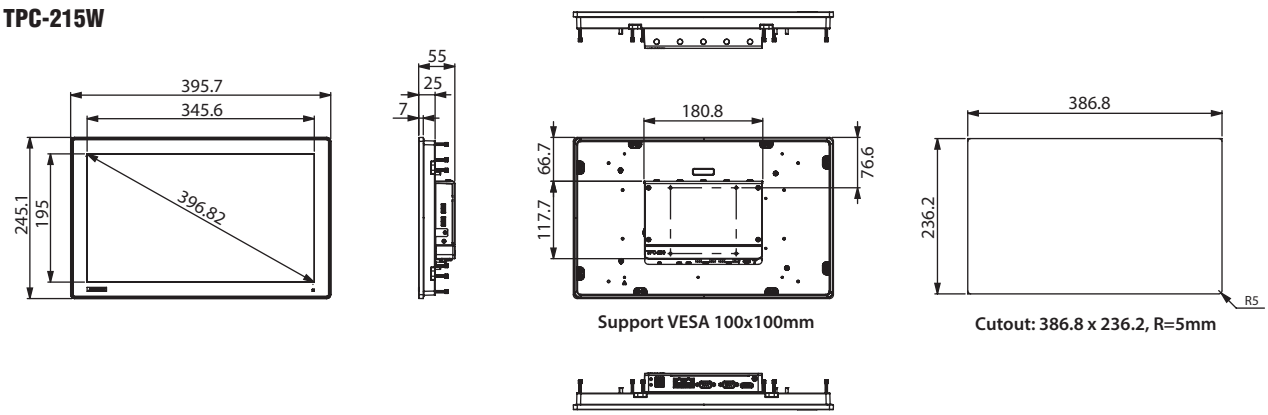
Dimensions

Unit: mm

TPC-210W



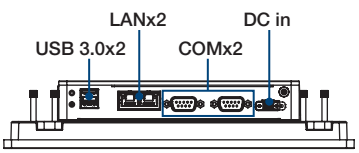
TPC-215W

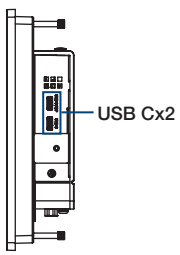


Ordering Information

- **TPC-210W-Q63YA** 10.1" Edge AI Panel, Qualcomm® QCS6490, Yocto
- **TPC-210W-Q63WA** 10.1" Edge AI Panel ,Qualcomm® QCS6490, Win11 IoT Enterprise
- **TPC-215W-Q63YA** 15.6" Edge AI Panel ,Qualcomm® QCS6490, Yocto
- **TPC-215W-Q63WA** 15.6" Edge AI Panel ,Qualcomm® QCS6490, Win11 IoT Enterprise

External I/O





Optional Accessories

- **96PSA-A120W24T2-4** ADP A/D 100-240V 120W 24V C14 CORD END 62368
- **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
- **New** Economic package for TPC-200W, WiFi/Bluetooth KIT

Packing List

Item	Part No.	Depiction	TPC-210W	TPC-215W
			Q'ty	Q'ty
Plug-In Block	1652002209	PLUG-IN BLOCK DIP 2P (F)	1	1
Cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1	1
Clamp Screw	1930009147	Screw M4x13L RH D=5.5 H=5 2+ ST/H Ni	4	8