WOP-208K

8" SVGA Operator Panel Installed with HMINavi Software

Features

- ARM9™ 32-bit RISC processor with 64 MB SDRAM working memory
- Supports over 500+ PLC industrial communication protocols
- Backup memory 128KB for retaining critical data or parameter
- Supports the HMINavi Designer development tool free on Windows 10
- Supports HMINavi Runtime data downloads through Serial, Ethernet, USB port
- No limitation on the internal I/Os points used for variety application
- Reliable firmware setting from HMINavi software for 24/7 operation
- Easy to switch one application to different LCD sizes in seconds
- Supports operation in both landscape and portrait mode
- Panel mount design ensures easy installation and IP66-rated front panel

Introduction

To fulfill the stringent standards of the automation market, especially for packaging, label slitting, and F&B applications, Advantech developed the WOP-200K series for diverse operations that involve PLCs, thermal controllers, inverters, and sensors. Powered by an ARM9™ 32-bit RISC processor with 64 MB working memory, the WOP-200K series systems are available with LCDs of varying size (from 4.3" to 15"). Additionally, WOP-200K systems are bundled with Advantech's HMINavi software – a human-machine interface designed for HMI applications to reduce labor and improve manufacturing efficiency through visualization. Powerful connectivity drivers support 500+ variety market brands of PLC.

Specifications

General

- **Certification** — CE, FCC, UL61010
- **Dimensions (W x H x D)** — 233 x 176 x 43.3mm (9.17' x 6.93' x 1.7')
- **Cut-out Dimensions** — 221 x 164mm (8.70' x 6.44')
- **Front Panel Thickness** — 6 mm
- **Operating System** — HMI RTOS, HMINavi Designer
- **Power Supply Voltage** — $24V_{DC} \pm 10\%$, Isolation
- **Power Consumption** — 20W
- **Enclosure Housing** — Plastic
- **Mount Options** — Panel
- **Weight (Net)** — 1 kg (2.2 lbs)

System Hardware

- **CPU** — ARM9™ 32-bit RISC processor
- **Battery Backup Memory** 128KB
- **Working Memory** — 64 MB SDRAM
- **Storage** — 128 MB NAND Flash
  Runtime Max Size: 64 MB
  Data Logger Max Size: 64 MB

Communication Interface

- **COM1** — RS-232 (DB9 Female)
- **COM2** — RS-422/485 (COM1: Pin 1, 4, 5, 6, 9)
- **COM3** — RS-485 (COM1: Pin 5, 7, 8)
- **Ethernet (RJ45)** — 10/100-BaseT
- **I/Os** — 1 x USB (Client)
  1 x USB (Host)

LCD and Touchscreen

- **Display Type** — SVGA TFT LCD
- **Display Size** — 8"
- **Max. Resolution** — 800 x 600
- **Max. Colors** — 65,536 colors
- **Luminance (cd/m²)** — 250
- **Backlight Life** — LED, 20,000 hr
- **Touchscreen** — 4 wires analog resistive

Environment

- **Operating Temperature** — -15 ~ 65°C (5 ~ 149°F)
- **Storage Temperature** — -20 ~ 70°C (-4 ~ 158°F)
- **Humidity** — 95% RH @ 40°C, non-condensing
- **Ingress Protection** — Front panel: IP66
- **Vibration Protection** — 5 ~ 500Hz (X,Y,Z direction, 1Grms, 1hour per axis)

Ordering Information

- **WOP-208K-NAE** — 8" SVGA, 64MB, 128MB(NAND), Serial x3, Ethernet

Dimensions

Unit: mm [inch]

43.3 [1.7]

176 [6.93]

162.8 [6.41]

6 [0.24]

233 [9.17]

37.3 [1.47]

219.8 [8.65]
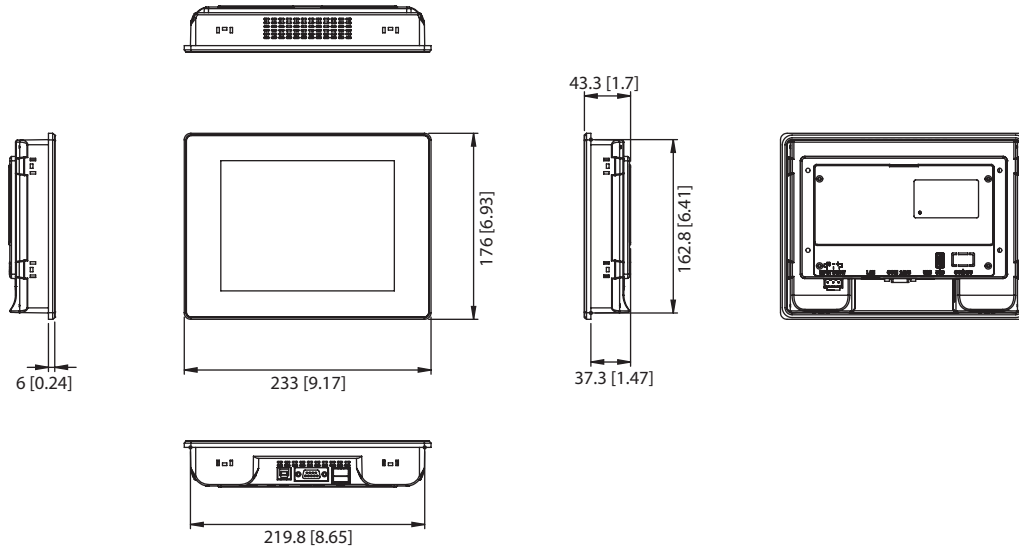
Panel Cutout Dimensions: 221 x 164 mm (8.7 x 6.44 in)

Optional Accessories

DIN-Rail Type Power Supply Module
- **96PSD-A60W24-MM** A/D 100-240V 60W 24V MDR DIN RAIL
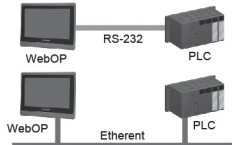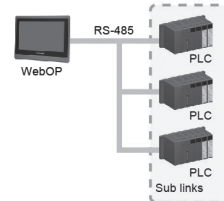- **96PSD-A120W24-MN** A/D 100-240V 120W 24V NDR DIN RAIL
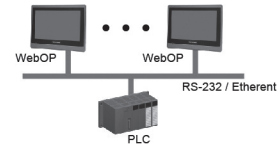
Rear View

Communication Links

Direct Link

1-to-1 Connection

RS-232

WebOP

PLC

WebOP

Etherent

PLC

1-to-N Connection

RS-485

WebOP

PLC

PLC

PLC

Sub links

N-to-1 Data Sharing Connection

WebOP

WebOP

RS-232 / Etherent

PLC

In-Direct Link

2-to-1 Connection

WebOP

WebOP

PLC

Indirect link via 2-to-1 connection

2-to-1 server

Direct link

N-to-1 Connection

Etherent

WebOP

WebOP

Indirect Link via N-to-1 connection (Etherent)

N-to-1 master

Direct link

WebOP

PLC
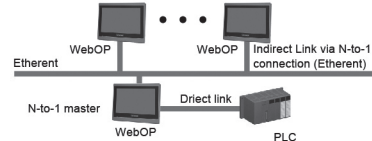
2-to-1 Transparent Connection

WebOP

WebOP

PLC

PC

2-to-1 Transparent Server

WebOP

PLC

2-to-1 Transparent Server