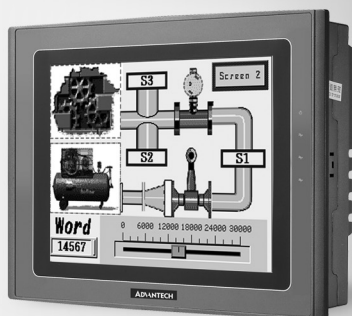


# WebOP-2080V

## 8" SVGA Operator Panel with WebOP Designer Software



### Features

- Various LCD sizes (3.5", 5.7", 7", 8", 10.4", 12.1")
- Supports ARM9-based CPUs with 70~200MHz and 4~16MB flash memory
- Supports RTC, battery backup RAM, and Ethernet-based operator panels
- Supports runtime data downloads through Serial, Ethernet, USB
- Supports adjustable brightness controls via touch panel
- Reliable firmware for 24/7 operation
- Supports Windows XP/7/Vista-based WebOP Designer development tool
- Easy to switch one application to different LCD sizes in seconds
- Supports vertical and horizontal application screen rotation
- Supports over 300 PLC industrial communication protocols
- Communicates with up to four types of devices
- Panel mounting for machinery

### Introduction

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the WOP-2000V series which are designed with ARM9-based RISC CPU with 70~200MHz and 4~16MB flash memory for application software. The WOP-2000V series also support a variety of LCD size from 3.5" to 12.1" for different applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. WebOP Designer is a software development kit which helps create application solutions for labor-saving, improved efficiency of manufacturing and easy control of every machine in the factory. The WOP-2000V series is bundled with WebOP Designer offering an outstanding price performance ratio for various markets such as conventional operator panels, HMI + Low mini SCADA systems, and HMI + communication gateways.

### Specifications

#### General

- |                                |   |
|--------------------------------|---|
| ▪ <b>Certifications</b>        | CE, BSMI, CCC, UL, FCC Class A                  |
| ▪ <b>Dimensions (WxHxD)</b>    | 232.5 x 175.8 x 42.9 mm (9.15" x 6.92" x 1.69") |
| ▪ <b>Cut-out Dimensions</b>    | 221 x 164 mm (8.70" x 6.46")                    |
| ▪ <b>Front Panel Thickness</b> | 6 mm  |
| ▪ <b>Operating System</b>      | HMI RTOS, WebOP Designer                        |
| ▪ <b>Power Supply Voltage</b>  | 24V <sub>DC</sub> ±10%                          |
| ▪ <b>Power Consumption</b>     | 25W   |
| ▪ <b>Enclosure Housing</b>     | Plastic   |
| ▪ <b>Mounting</b>              | Panel   |
| ▪ <b>Weight (Net)</b>          | 1 kg (2.2 lbs)                                  |

#### System Hardware

- |                                |                     |
|--------------------------------|---------------------|
| ▪ <b>CPU</b>                   | RISC 32bits, 200MHz |
| ▪ <b>Battery Backup Memory</b> | 128KB               |
| ▪ <b>Flash Memory</b>          | 16MB                |
| ▪ <b>Power-On LED</b>          | Yes                 |
| ▪ <b>Communication LED</b>     | COM1, COM2 and COM3 |
| ▪ <b>Front USB Access</b>      | No                  |

#### Communication Interface

- |                          |  |
|--------------------------|--|
| ▪ <b>COM1</b>            | RS-232/422/485 (DB9 Female)                      |
| ▪ <b>COM2</b>            | RS-232/422/485 (DB9 Male & 5-Pin Plug Connector) |
| ▪ <b>COM3</b>            | RS-232 (6-Pin Plug Connector)                    |
| ▪ <b>Ethernet (RJ45)</b> | 10/100-BaseT                                     |
| ▪ <b>I/Os</b>            | USB Client      No                               |
|                          | USB Host        Yes                              |
|                          | Micro-SD Slot   No                               |

#### LCD Display and Touchscreen

- |                                       |                           |
|---------------------------------------|---------------------------|
| ▪ <b>Display Type</b>                 | SVGA TFT LCD              |
| ▪ <b>Display Size</b>                 | 8"                        |
| ▪ <b>Max. Resolution</b>              | 800 x 600                 |
| ▪ <b>Max. Colors</b>                  | 65,536 colors             |
| ▪ <b>Luminance (cd/m<sup>2</sup>)</b> | 350                       |
| ▪ <b>Backlight Life</b>               | LED, 30,000 hrs           |
| ▪ <b>Dimming</b>                      | Adjustable by touch panel |
| ▪ <b>Touchscreen</b>                  | 4 wire analog resistive   |

#### Environment

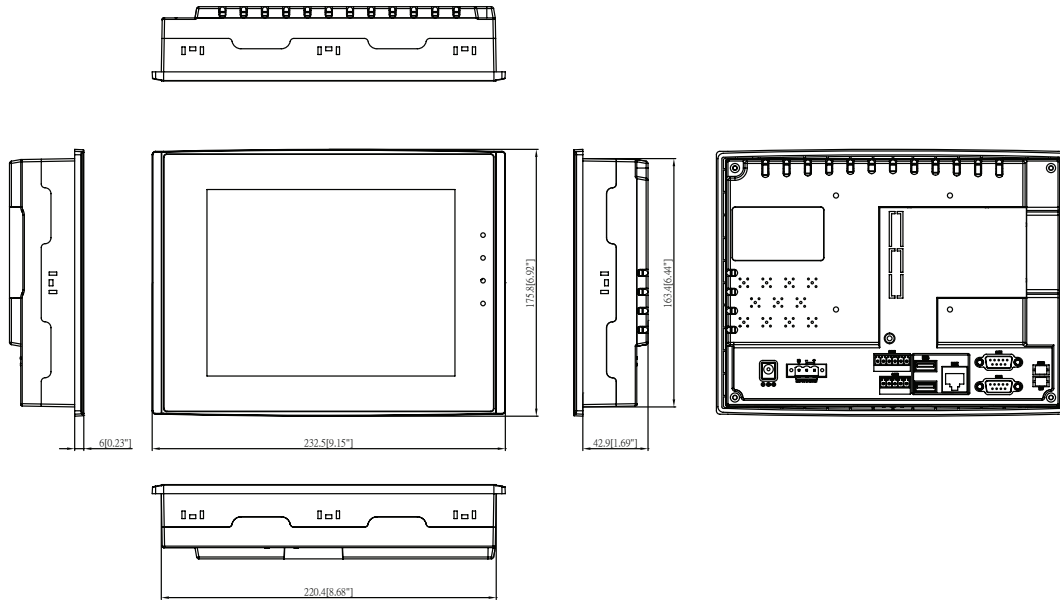
- |                                |   |
|--------------------------------|---|
| ▪ <b>Operating Temperature</b> | 0 ~ 50°C (32 ~ 122°F)                           |
| ▪ <b>Storage Temperature</b>   | -20 ~ 60°C (-4 ~ 140°F)                         |
| ▪ <b>Humidity</b>              | 10 ~ 95% RH @ 40°C, non-condensing              |
| ▪ <b>Ingress Protection</b>    | Front panel: IP65                               |
| ▪ <b>Vibration Protection</b>  | Operating, random vibration 1 Grms (5 ~ 500 Hz) |

### Ordering Information

- |                         |   |
|-------------------------|---|
| ▪ <b>WOP-2080V-N4AE</b> | 8" SVGA, 16MB, RS-232/422/485, Ethernet |
|-------------------------|---|

## Dimensions

Unit: mm

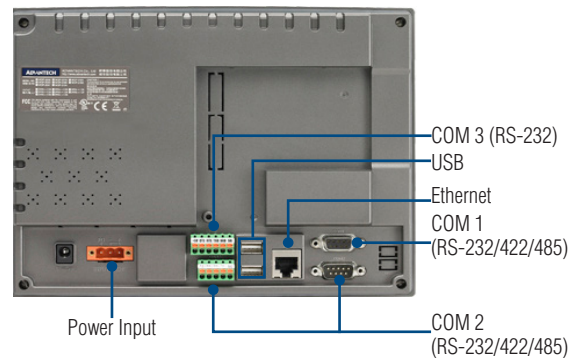


**Panel Cut-out Dimensions: 221 x 164 mm (8.70" x 6.46")**

## Accessories

- **CWOP-P2HFM-AD12E** PC to HMI program download cable, DB9/2m
- **CWOP-P2HAB-ADU2E** PC to HMI program download cable, USB/2m
- **PWR-247-AE** 24 V 50 W AC-DC Power Adapter
- **1702002600** Power Cable US Plug 1.8 M
- **1702002605** Power Cable EU Plug 1.8 M
- **1702031801** Power Cable UK Plug 1.8 M
- **1702031836** Power Cable China/Australia Plug 1.8 M

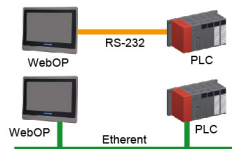
## Rear View



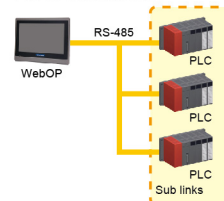
## Communication Links

### Direct Link

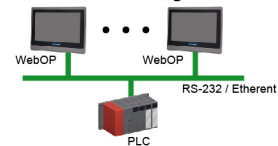
#### 1-to-1 Connection



#### 1-to-N Connection



#### N-to-1 Data Sharing Connection

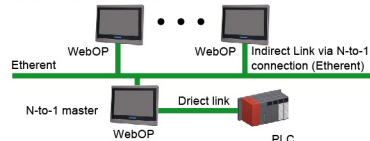


### In-Direct Link

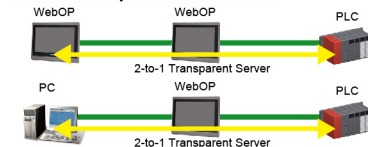
#### 2-to-1 Connection



#### N-to-1 Connection



#### 2-to-1 Transparent Connection





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