

WebOP-2070V

7" WVGA 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

- | | |
|--------------------------------|--|
| ▪ Certifications | CE, BSMI, CCC, UL, FCC Class A |
| ▪ Dimensions (WxHxD) | 188 x 143.3 x 40 mm (7.4" x 5.64" x 1.57") |
| ▪ Cut-out Dimensions | 175 x 132.5 mm (6.89" x 5.21") |
| ▪ Front Panel Thickness | 6 mm |
| ▪ Operating System | HMI RTOS, WebOP Designer |
| ▪ Power Supply Voltage | 24V _{DC} ±10% |
| ▪ Power Consumption | 25W |
| ▪ Enclosure Housing | Plastic |
| ▪ Mounting | Panel |
| ▪ Weight (Net) | 1 kg (2.2 lbs) |

System Hardware

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|--------------------------------|-----------------------|
| ▪ CPU | RISC 32 bits, 200 MHz |
| ▪ Battery Backup Memory | 128KB |
| ▪ Flash Memory | 16 MB |
| ▪ Power-On LED | Yes |
| ▪ Communication LED | No |
| ▪ Front USB Access | No |

Communication Interface

- | | |
|--------------------------|--|
| ▪ COM1 | RS-232/422/485 (DB9 Female) |
| ▪ COM2 | RS-232/422/485 (DB9 Male & 5-Pin Plug Connector) |
| ▪ COM3 | None |
| ▪ Ethernet (RJ45) | 10/100-BaseT |
| ▪ I/Os | USB Client No |
| | USB Host Yes |
| | Micro-SD Slot No |

LCD Display and Touchscreen

- | | |
|---------------------------------------|---------------------------|
| ▪ Display Type | WVGA TFT LCD |
| ▪ Display Size | 7" |
| ▪ Max. Resolution | 800 x 480 |
| ▪ Max. Colors | 65,536 colors |
| ▪ Luminance (cd/m²) | 300 |
| ▪ Backlight Life | LED, 20,000 hrs |
| ▪ Dimming | Adjustable by touch panel |
| ▪ Touchscreen | 4 wire analog resistive |

Environment

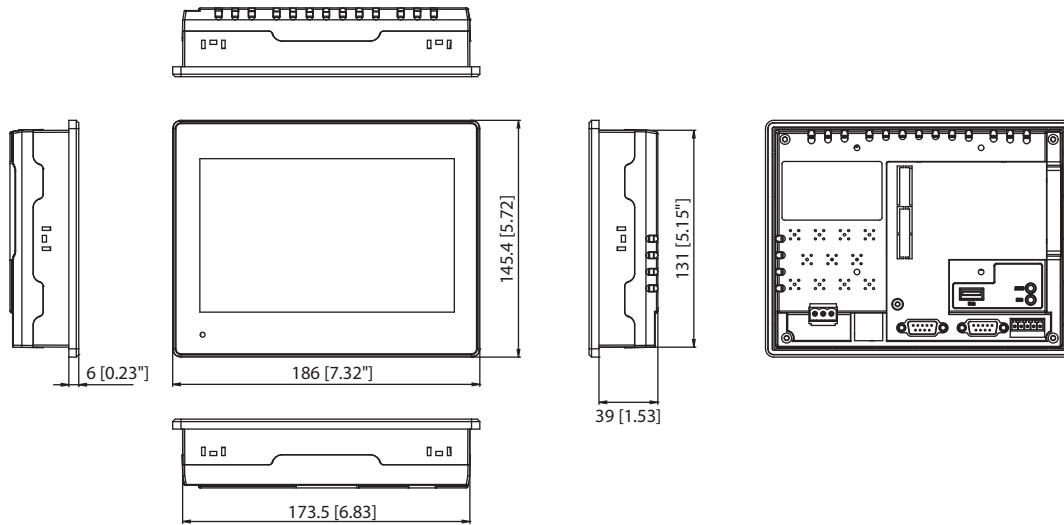
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|--------------------------------|---|
| ▪ Operating Temperature | 0 ~ 50°C (32 ~ 122°F) |
| ▪ Storage Temperature | -20 ~ 60°C (-4 ~ 140°F) |
| ▪ Humidity | 10 ~ 95% RH @ 40°C, non-condensing |
| ▪ Ingress Protection | Front panel: IP65 |
| ▪ Vibration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

Ordering Information

- | | |
|-------------------------|--|
| ▪ WOP-2070V-N4AE | 7" WVGA, 16 MB, RS-232/422/485, Ethernet |
|-------------------------|--|

Dimensions

Unit: mm

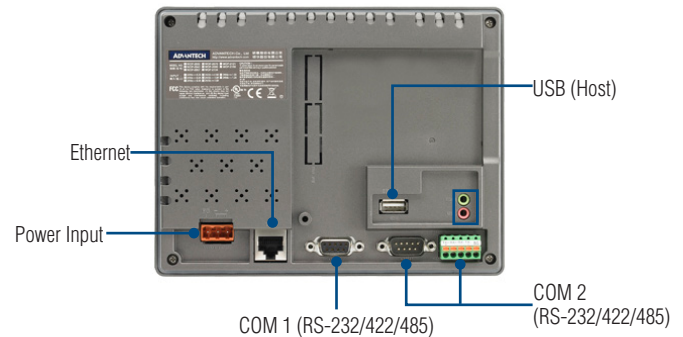


Panel Cut Out Dimensions: 175 x 132.5 mm (6.89" x 5.21")

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

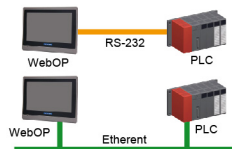
Rear View



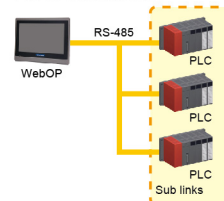
Communication Links

Direct Link

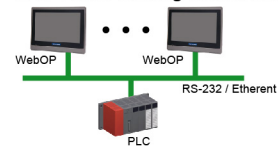
1-to-1 Connection



1-to-N Connection



N-to-1 Data Sharing Connection

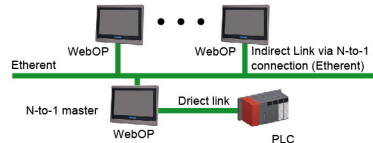


In-Direct Link

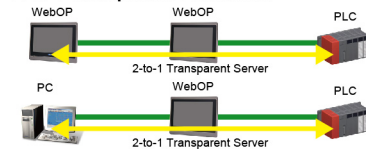
2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection





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