

# WebOP-2050T

5.6" QVGA Operator Panel with WebOP Designer Software

NEW



## Features

- Various LCD sizes (4.3" to 15")
- Supports ARM9-based CPUs with 200MHz and 128MB 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/ 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
- Front panel is NEMA4/IP66 compliant

## Introduction

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the WebOP-2000T series with 200MHz ARM9-based RISC CPU's and 128MB flash memory for application software. The WebOP-2000T series also support a variety of LCD sizes from 4.3" to 15" for different applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. The WebOP-2000T series is bundled with WebOP Designer: 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. WebOP Designer offers 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 30 mm (7.4" x 5.64" x 1.18")
- **Cut-out Dimensions** 175 x 132.5 mm (6.89" x 5.21")
- **Front Panel Thickness** 6mm
- **Operating System** HMI RTOS, WebOP Designer
- **Power Supply Voltage** 24V<sub>DC</sub> ±10%
- **Power Consumption** 10W
- **Enclosure Housing** Plastic
- **Mounting** Panel
- **Weight (Net)** 0.51 kg (1.12 lbs)

### System Hardware

- **CPU** RISC 32bits, 200MHz
- **Battery Backup Memory** 128KB
- **Flash Memory** 8MB + 128M NAND flash
- **Power-On LED** Yes
- **Communication LED** No
- **Front USB Access** No

### Communication Interface

- **COM1** RS-232/422/485 (DB9 Female)
- **COM2** RS-422/485 (5-Pin Plug Connector)
- **COM3** RS-232 (Com1: Pin5;7;8)
- **Ethernet (RJ45)** None
- **I/Os**
  - USB Client Yes
  - USB Host Yes
  - Micro-SD Slot Yes

### LCD Display and Touchscreen

- **Display Type** QVGA TFT LCD
- **Display Size** 5.6"
- **Max. Resolution** 320 x 234
- **Max. Colors** 65,536 colors
- **Luminance (cd/m<sup>2</sup>)** 330
- **Backlight Life** LED, 20,000 hrs
- **Dimming** Adjustable by touch panel
- **Touchscreen** 4 wire analog resistive

### Environment

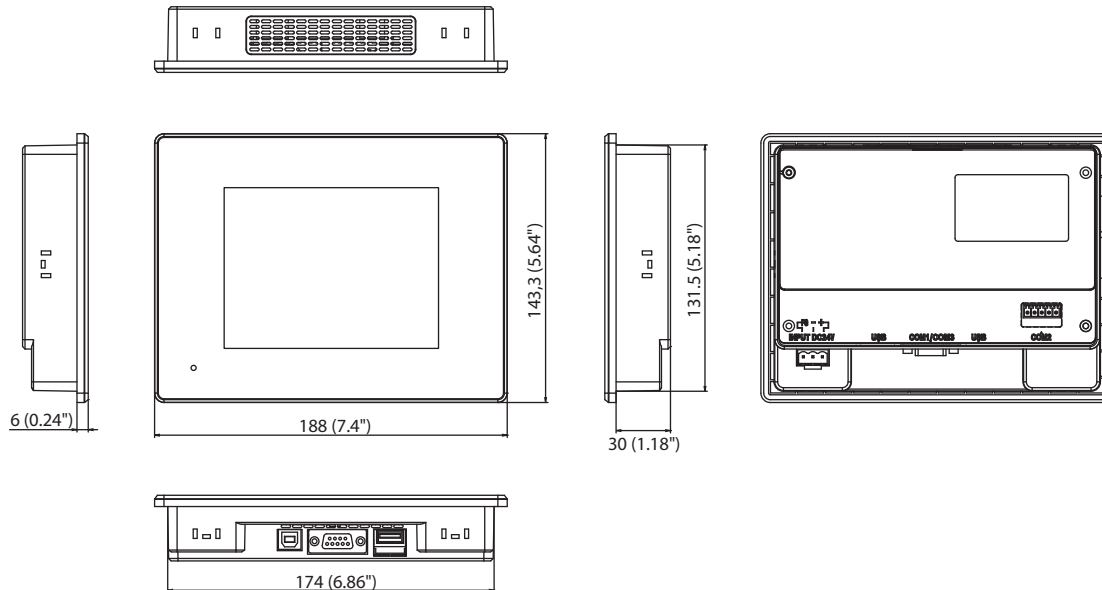
- **Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Humidity** 10 ~ 90% RH @ 40° C, non-condensing
- **Ingress Protection** Front panel: NEMA4, IP66

## Ordering Information

- **WOP-2050T-S1AE** 5.6" QVGA, 32 MB (SDRAM), 8MB (NOR) & 128MB (NAND)

## Dimensions

Unit: mm

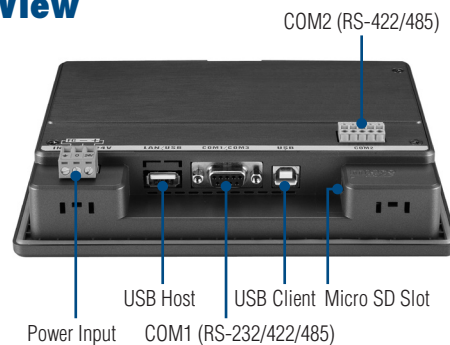


**Panel Cut-out Dimensions: 175 x 132.5mm (6.89" x 5.21")**

## Accessories

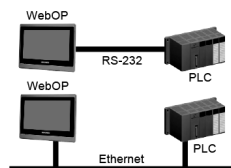
- **CWOP-P2HFM-AD12E** PC to HMI program download cable, DB9/2m
- **CWOP-P2HAB-ADU2E** PC to HMI program download cable, USB/2m
- **PWR-247-AE** 24 V 50 W AC-DC Power Adapter
- **1702002600** Power Cable US Plug 1.8 M
- **1702002605** Power Cable EU Plug 1.8 M
- **1702031801** Power Cable UK Plug 1.8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

## Rear View

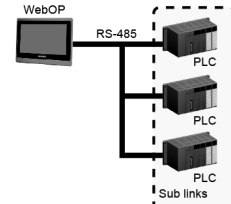


## Communication Links

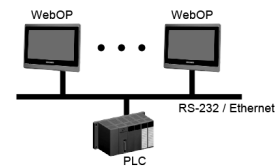
### Direct Link 1-to-1 Connection



### 1-to-N Connection



### N-to-1 Data Sharing Connection

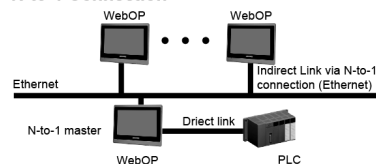


### In-Direct Link

#### 2-to-1 Connection



### N-to-1 Connection



### 2-to-1 Transparent Connection

