# Web0P-2104V

## **10.4" SVGA Operator Panel with WebOP Designer Software**

Supports ARM9-based CPUs with 70~200MHz and 4~16M flash memory size Supports RTC, battery backup RAM, and Ethernet-based operator panels

Supports Runtime data downloads through Serial, Ethernet, USB

Easy to switch one application to different LCD sizes in seconds

Supports vertical and horizontal application screen rotation

Supports over 250 PLC industrial communication protocols

Communicates with up to four types of devices

Supports Windows XP/ Vista-based WebOP Designer development tool

Supports adjustable brightness controls via touch panel



## 

## Introduction

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the WebOP-2000 series which are designed with ARM9-based RISC CPU with 70~200MHz and 4~16MB flash memory size for application software. The WebOP-2000 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 WebOP-2000 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
- Dimensions (WxHxD)
- Cut-out Dimensions
- Front Panel Thickness
- Operating System
- Power Supply Voltage
- Power Consumption
- Enclosure Housing
- Mounting
- 1.55 kg (3.41 lbs) Weight (Net)

#### System Hardware

- CPU
- Battery Backup Memory 128KB
- Flash Memory 16MB
- Power-On LED
- COM1, COM2 and COM3 Communication LED

Yes

Yes

Front USB Access

#### **Communication Interface**

- COM1 RS-232/422/485 (DB9 Female) - COM2 RS-232/422/485 (DB9 Male & 5-Pin Plug Connector)
- COM3 RS-232 (6-Pin Plug Connector)

No

- Ethernet (RJ45) 10/100-BaseT
- I/Os
- USB Client No USB Host Yes
  - Micro-SD Slot

#### LCD Display and Touchscreen

- SVGA TFT LCD Display Type
- Display Size
- Max. Resolution
- 800 x 600 Max. Colors 65,536 colors
- Luminance (cd/m<sup>2</sup>)

**Features** 

•

.

• Various LCD sizes (3.5", 5.7", 7", 8", 10.4", 12.1")

Reliable firmware for 24/7 operation

Panel mounting for machinery

- 300 Viewing Angle (H/V°) 140/120
- **Backlight Life** LED, 30,000
- Dimmina Adjustable by touch panel

10.4"

Touchscreen 4 wire analog resistive

#### Environment

- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- -20 ~ 60° C (-4 ~ 140° F) Storage Temperature
- Humidity 10~95% RH @ 40° C, non-condensing
- Incress Protection Front panel: NEMA4, IP65
- Vibration Protection Operating, radom vibration 1 Grms (5 ~ 500 Hz)

## **Ordering Information**

- WOP-2104V-N4AE
- 10.4" SVGA, 16MB, RS-232/422/485, Ethernet

**Industrial Operator Panels** AD\ANTECH

297 x 224 x 52 mm (11.6" x 8.8" x 2.04") 285.5 x 210.5 mm (11.24" x 8.28") 6mm HMI RTOS, WebOP Designer 24V<sub>DC</sub> ±10%

RISC 32bits, 200MHz

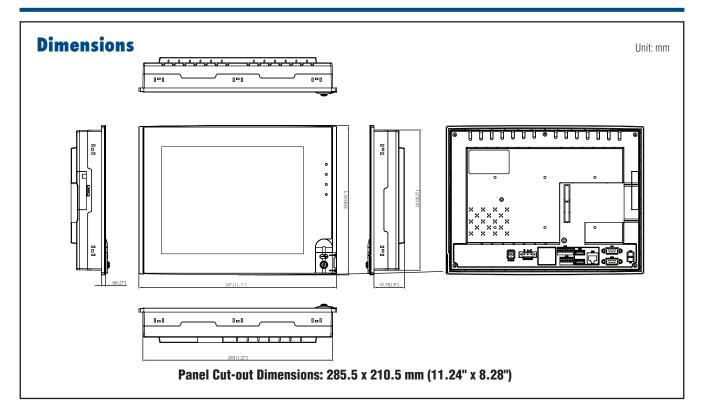
25W

Plastic

Panel

CE, BSMI, CCC, UL, FCC Class A

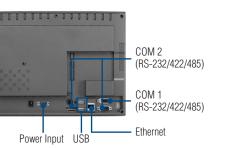
## WebOP-2104V



## **Front USB Access**



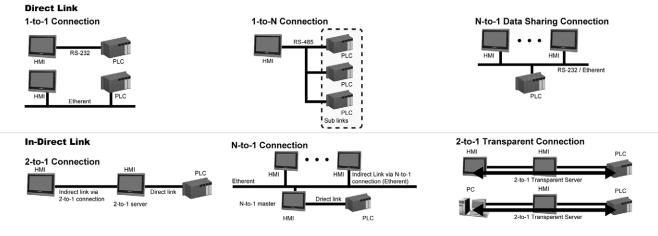
## **Rear View**



## HMI Development Software Features



## **Communication Links**



**Online Download** www.advantech.com/products