WebOP-2121V

12.1" 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 4~16M flash memory size
- 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 250 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 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
CE, BSMI, CCC, UL, FCC Class A
315 x 241 x 54.5 mm (12.4" x 9.48" x 2.14")
Gut-out Dimensions
301.5 x 228 mm (11.87" x 8.97")

• Front Panel Thickness 6mm

Operating System
HMI RTOS, WebOP Designer

Power Supply Voltage 24V_{DC} ±10%
Power Consumption 25W
Enclosure Housing Plastic
Mounting Panel

• Weight (Net) 1.55 kg (3.41 lbs)

System Hardware

■ CPU RISC 32bits, 200MHz

Battery Backup Memory 128KB
Flash Memory 16MB
Power-On LED Yes

Communication LED COM1, COM2 and COM3

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 RS-232 (6-Pin Plug Connector)

Ethernet (RJ45) 10/100-BaseT

I/Os
USB Client
USB Host
Yes

USB Host Yes Micro-SD Slot No

LCD Display and Touchscreen

Display Type
Display Size
Max. Resolution
Max. Colors
Luminance (cd/m²)
Viewing Angle (H/V°)
Backlight Life
CFL, 30,000

Dimming Adjustable by touch panelTouchscreen 8 wire analog resistive

Environment

• Operating Temperature $0 \sim 50^\circ$ C $(32 \sim 122^\circ$ F) • Storage Temperature $-20 \sim 60^\circ$ C $(-4 \sim 140^\circ$ F)

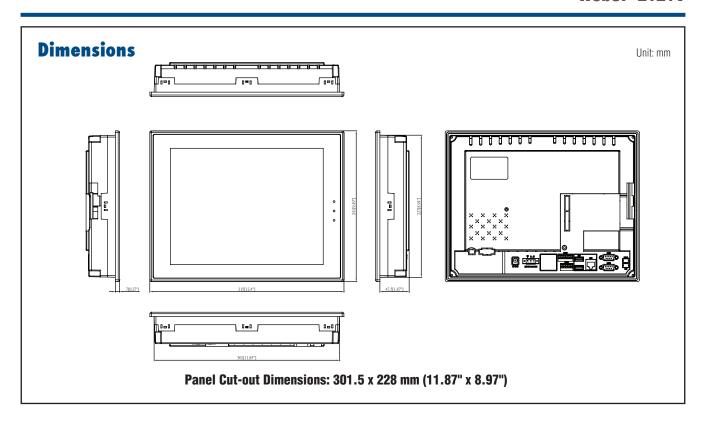
■ **Humidity** 10 ~ 95% RH @ 40° C, non-condensing

• Ingress Protection Front panel: NEMA4, IP65

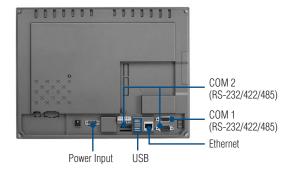
• Vibration Protection Operating, radom vibration 1 Grms (5 ~ 500 Hz)

Ordering Information

• WOP-2121V-N4AE 12.1" SVGA, 16MB, RS-232/422/485, Ethernet



Rear View



HMI Development Software Features



Communication Links

