WOP-2121V

12.1" SVGA Operator Panel with PM Designer 2.0 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 PM Designer 2.0 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 WOP-2000 series which are designed with ARM9-based RISC CPU with 70~200MHz and 4~16MB flash memory size for application software. The WOP-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. PM Designer 2.0 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-2000 series is bundled with PM Designer 2.0 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 / FCC / BSMI / UL / CCC

Dimensions (WxHxD) 315 x 241 x 54.5 mm (12.4" x 9.48" x 2.14")

Cut-out Dimensions 301.5 x 228 mm (11.87" x 8.97")

• Front Panel Thickness 6mm

Operating System HMI RTOS, PM Designer 2.0

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 Yes

USB Host No 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
SVGA TFT LCD
12.1"
500 x 600
65,536 colors
350
Uiewing Angle (H/V°)
CCFL, 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** $10 \sim 95\%$ RH @ 40° C, non-condensing

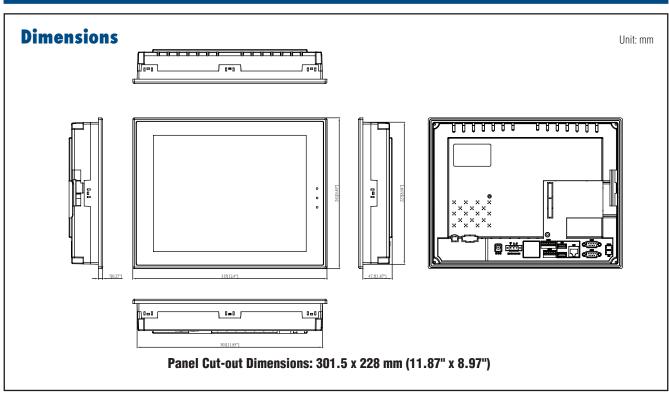
• Ingress Protection Front panel: NEMA4, IP65

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

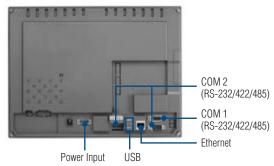
Ordering Information

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

WOP-2121V



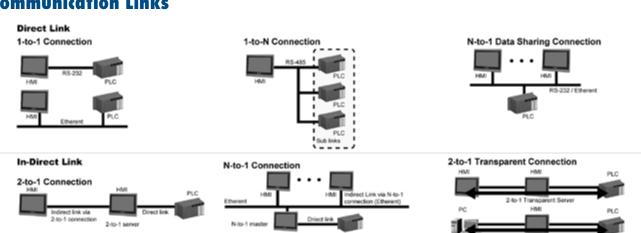
Rear View



HMI Development Software Features



Communication Links



Operator Panels

Fanless Panel PCs

Panel Computers

Display Solutions

Ethernet Switches

Device Servers

Serial Comm. Cards

Senai comm. Cards

Video Surveillance

Pre-Configured Systems

IPC Chargie

SBCs and Backplanes

Industrial Motherboard

Embedded IPCs

Mobile Computers

IPC Peripherals

DAQ

Signal Conditioning

LISB DAO