WOP-2104V

10.4" 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) 297 x 224 x 52 mm (11.6" x 8.8" x 2.04")
Cut-out Dimensions 285.5 x 210.5 mm (11.24" x 8.28")

• 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 Yes

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
800 x 600
5,536 colors
140/120
EED, 30,000

Dimming Adjustable by touch panelTouchscreen 4 wire analog resistive

Environment

Operating Temperature 0 ~ 50° C (32 ~ 122° F)
Storage Temperature -20 ~ 60° C (-4 ~ 140° F)

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

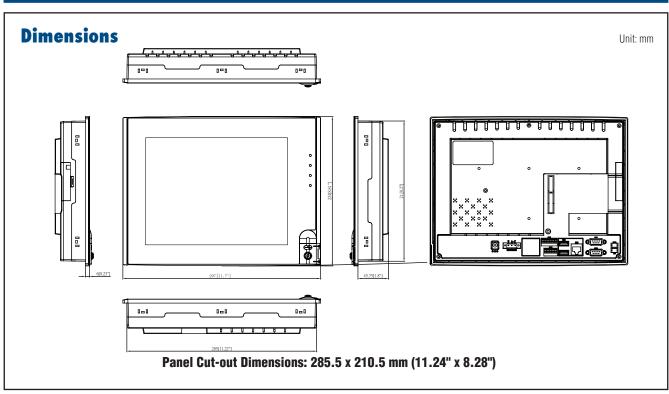
• Ingress Protection Front panel: NEMA4, IP65

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

Ordering Information

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

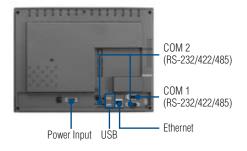
WOP-2104V



Front USB Access



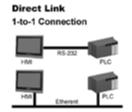
Rear View

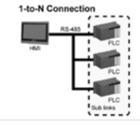


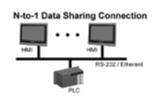
HMI Development Software Features

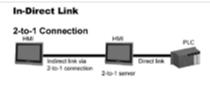


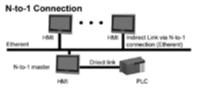
Communication Links

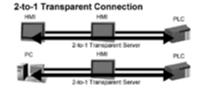












Operator Panels

Fanless Panel PCs

Ethernet Switches

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Video Surveillance

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