WOP-2035V

3.5" QVGA 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 4~16MB 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 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)** 130 x 106.2 x 45 mm (5.11" x 4.18" x 1.77")

Cut-out Dimensions 118.5 x 92.5 mm (4.66" x 3.64")

• Front Panel Thickness 6mm

Operating System HMI RTOS, PM Designer 2.0

Power Supply Voltage
Power Consumption
Enclosure Housing
Mounting
Panel

• Weight (Net) 0.27 kg (0.59 lbs)

System Hardware

■ **CPU** RISC 32bits, 70MHz

Battery Backup Memory 128KB
Flash Memory 4MB
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 None

Ethernet (RJ45)
10/100-BaseT (for N1AE model)

■ I/Os USB Client No

USB Host No Micro-SD Slot No

LCD Display and Touchscreen

 Display Type QVGA TFT LCD Display Size 3.5" Max. Resolution 320 x 240 Max. Colors 265 colors 350 Luminance (cd/m²) 120/120 Viewing Angle (H/V°) **Backlight Life** LED, 20,000 hrs **Dimming** Adjustable by touch panel Touchscreen 4 wire analog resistive

Environment

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

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

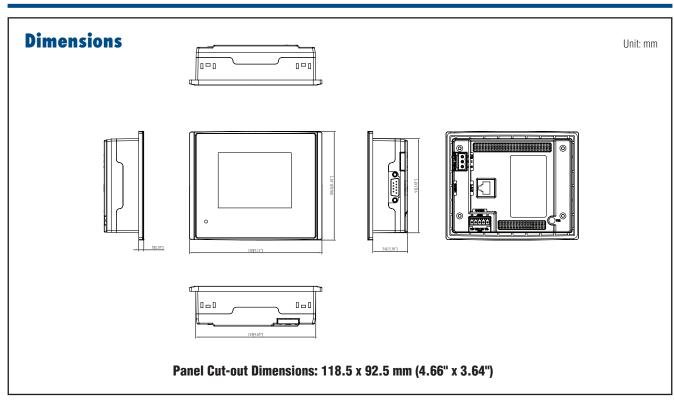
• Ingress Protection Front panel: NEMA4, IP65

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

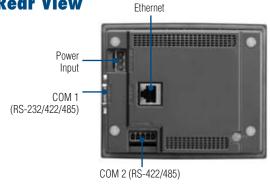
Ordering Information

WOP-2035V-S1AE
WOP-2035V-N1AE
3.5" QVGA, 4MB, RS-232/422/485, Ethernet
3.5" QVGA, 4MB, RS-232/422/485, Ethernet

WOP-2035V



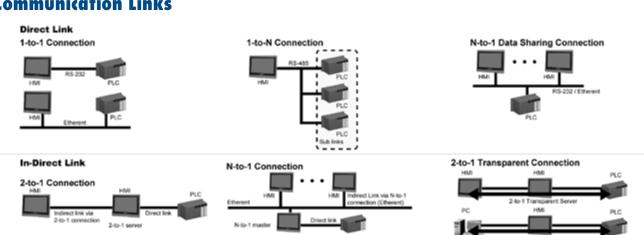
HMI Development Software Features





Communication Links

Rear View



Operator Panels

Fanless Panel PCs

Panel Computers

Display Solutions

Ethernet Switches

Device Servers

Serial Comm. Cards

Video Surveillance

Pre-Configured Systems

IPC Chassis

SBCs and Backplanes

Industrial Motherboar

mbedded IPCs

Mobile Computers

IPC Peripherals

DAQ

Signal Conditioning

LICE DAG