WOP-2057V

5.7" 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 4~16M flash memory size
- Supports RTC, battery backup RAM, and Ethernet-based operator panels
- Supports Runtime data downloads through Serial, Ethernet, USB, or Micro-SD
- 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

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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

Dimensions (WxHxD) 187 x 145.7 x 45 mm (7.36" x 5.73" x 1.77") Cut-out Dimensions 174.5 x 132.5 mm (6.87" x 5.21")

• Front Panel Thickness 6mm

 Operating System HMI RTOS, PM Designer 2.0

 Power Supply Voltage 24V_{DC} ±10% Power Consumption 15W Enclosure Housing Plastic Mounting Panel

Weight (Net) 0.65 kg (1.42 lbs)

System Hardware

CPU RISC 32bits, 70MHz

 Battery Backup Memory 128KB Flash Memory Power-On LED

 Communication LED COM1 and COM2

Front USB Access

Communication Interface

- COM1 RS-232/422/485 (DB9 Female)

- COM2 RS-232/422/485 (DB9 Female & 5-Pin Connector)

- COM3

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

USB Client Nο I/0s

USB Host No Micro-SD Slot

LCD Display and Touchscreen

 Display Type QVGA TFT LCD Display Size 5.7" Max. Resolution 320 x 240 Max. Colors 265 colors Luminance (cd/m²) 400 Viewing Angle (H/V°) 100/95 **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 ~ 60° C (-4 ~ 140° F)

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

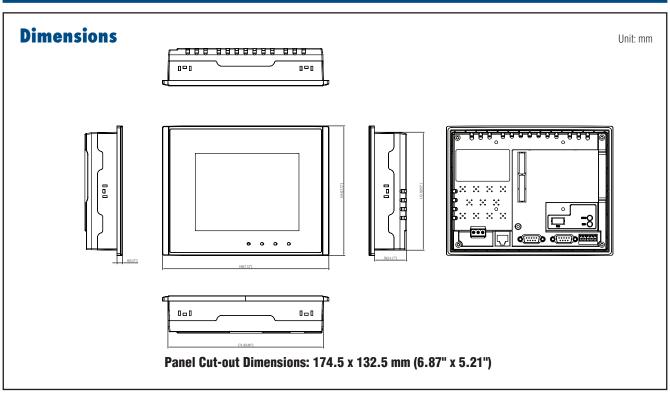
Ingress Protection Front panel: NEMA4, IP65

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

Ordering Information

WOP-2057V-S1AE 5.7" QVGA, 4MB, RS-232/422/485 WOP-2057V-N1AE 5.7" QVGA, 4MB, RS-232/422/485, Ethernet

WOP-2057V



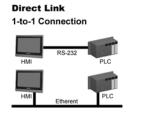
Rear View

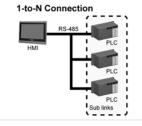
COM 2 (RS-232/422/485) Ethernet COM 1 (RS-232/422/485)

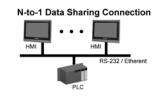
HMI Software Features

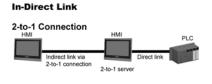


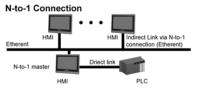
Communication Links

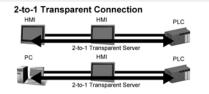












Automation Software

Touch Panel PC

Industrial Monitor

Fanless Box PC

Ethernet Switch

Device Server

Serial Comm. Card

DAQ

Signal Conditioning

USB DAQ

Motion Control I/O

PC-based Controller

PAC

RS-485 I/O

Ethernet I/O

Building Automation

Video Surveillance