WebOP-2080T

8" SVGA Operator Panel with WebAccess/HMI

Last updated : 27-Jul-2016

Features

- Includes ARM 9-based CPUs 200 MHz and 128 MB flash memory
- Includes RTC, battery backup RAM, and Ethernet-based operator panels
- Supports runtime data downloads through serial, Ethernet, USB interface
- Supports brightness controls via touch panel
- Reliable firmware for 24/7 operation
- Supports WebAccess/HMI Designer development tool on Windows XP/Vista/7
- Easy to run one application on any screen size
- Supports vertical and horizontal application screen rotation
- Supports over 450 PLC industrial communication protocols
- Communicates with up to four types of devices
- Easily installed with panel mounting design
- Front panel with IP66 protection

R33138 CE FCC c(UL)us LISTED E180881 I.T.E. CCC

Introduction

To fulfill the strinTo fulfill the stringent standards required in automation market especially in packaging, label slitting, and robot dispensing, Advantech offers the WebOP-2000T series for applications related to PLCs operation, motion/thermal controllers, inverters and sensors. It's designed with various LCD sizes from 4.3" to 10.1, ARM 9-based RISC CPU's, 128 MB flash memory and HMI application software. The WebOP-2000T series is bundled with WebAccess/HMI: a powerful software which is able to create HMI application solutions for labor-saving, manufacturing efficiency improved and visualized operation on every machine in factory.

Specifications

General

- **Certification** CE, BSMI, CCC, UL, FCC Class A
- **Dimensions (WxHxD)** 231.5 x 174.6 x 37 mm (9.11" x 6.87" x 1.46")
- **Cut-out Dimensions** 221 x 164 mm (8.70" x 6.46")
- **Front Panel Thickness** 6 mm
- **Operating System** HMI RTOS, WebOP Designer
- **Power Supply Voltage** 24V_{DC} ±10%
- **Power Consumption** 10W
- **Enclosure Housing** Plastic
- **Mounting** Panel
- **Weight (Net)** 0.93 kg (2.05 lbs)

System Hardware

- **CPU** RISC 32bits, 200MHz
- **Battery Backup Memory** 128KB
- **Flash Memory** 8MB/ 8MB + 128M NAND flash
- **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** RS-232 (Com1: Pin5;7;8)
- **Ethernet (RJ45)** 10/100-BaseT (for N2AE model)
- **I/Os** USB Client — Yes
  USB Host — Yes
  Micro-SD Slot — Yes (for N2AE model)

LCD Display and Touchscreen

- **Display Type** SVGA TFT LCD
- **Display Size** 8"
- **Max. Resolution** 800 x 600
- **Max. Colors** 65,536 colors
- **Luminance (cd/m²)** 250
- **Backlight Life** LED, 30,000 hrs
- **Dimming** Adjustable by touch panel
- **Touchscreen** 4 wires analog resistive

Environment

- **Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Humidity** 10 ~ 90% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** Operating, radom vibration 1 Grms (5 ~ 500 Hz)

Ordering Information

- **WOP-2080T-S2AE** 8" SVGA, 64MB (SDRAM), 8MB (NOR)
- **WOP-2080T-N2AE** 8" SVGA, 64MB (SDRAM), 8MB (NOR) & 128MB (NAND)
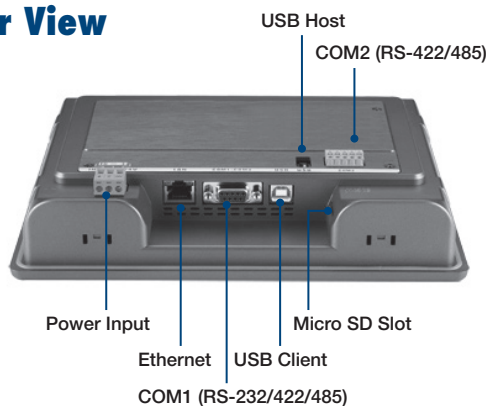
Dimensions

Unit: mm

174.5(6.87")

163 (6.42")

6 (0.24")

231.5 (9.11")

37 (1.46")

220 (8.67")
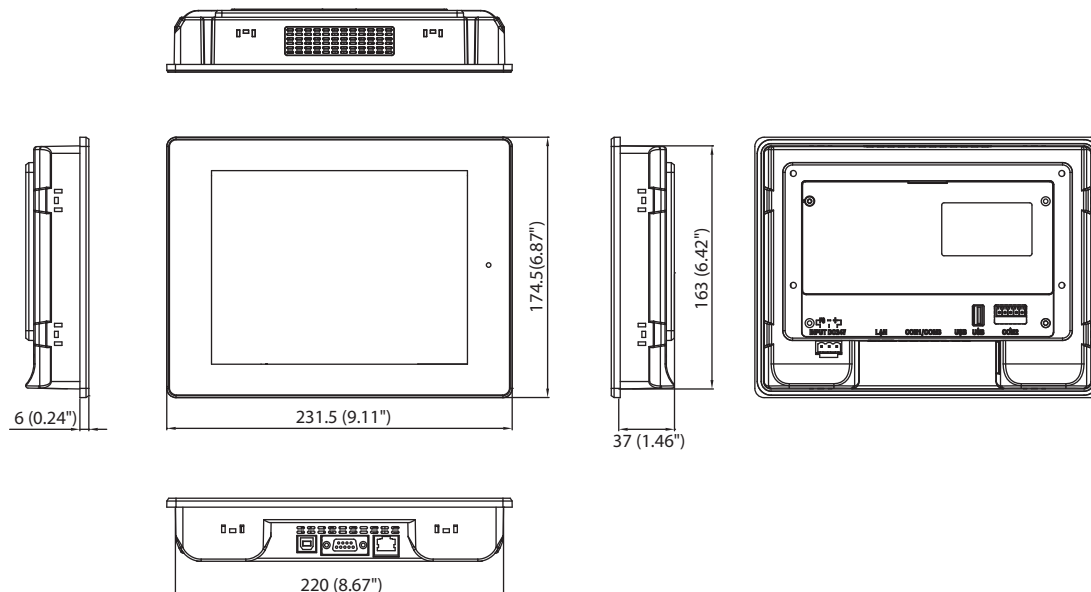
Panel Cut-out Dimensions: 221 x 164 mm (8.70" x 6.46")

Optional Accessories

- **PWR-247-CE** — 100-240V 60W 24V 2.5A Power Supply
- **1702002600** — Power Cable US Plug 1.8 M
- **1702002605** — Power Cable EU Plug 1.8 M
- **1702031801** — Power Cable UK Plug 1.8 M
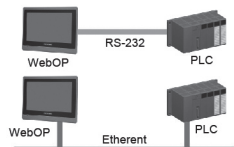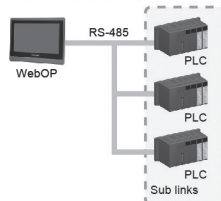- **1700000596** — Power Cable China/Australia Plug 1.8 M

Rear View

USB Host

COM2 (RS-422/485)
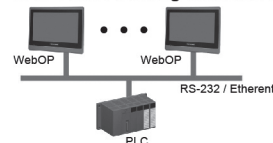
Power Input

Micro SD Slot

Ethernet

USB Client

COM1 (RS-232/422/485)

Communication Links

Direct Link

1-to-1 Connection

RS-232
WebOP
PLC

WebOP
Etherent
PLC

1-to-N Connection

RS-485
WebOP
PLC
PLC
PLC
Sub links

N-to-1 Data Sharing Connection

WebOP
WebOP
RS-232 / Etherent
PLC

In-Direct Link

2-to-1 Connection

WebOP
WebOP
PLC
Indirect link via 2-to-1 connection
2-to-1 server
Direct link

N-to-1 Connection

WebOP
WebOP
Indirect Link via N-to-1 connection (Etherent)
Etherent
N-to-1 master
WebOP
Direct link
PLC
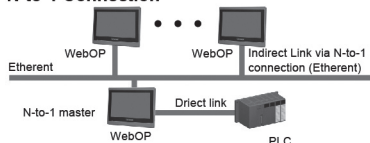
2-to-1 Transparent Connection

WebOP
WebOP
PLC
PC
2-to-1 Transparent Server
WebOP
PLC
2-to-1 Transparent Server