

# Промышленные панели оператора серии WebOP

## ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

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# WebOP-2070T

7" WVGA Operator Panel with  
WebOP Designer Software



## Features

- Various LCD sizes (4.3", 5.6", 7", 8", 10.1")
- Supports ARM9-based CPUs with 200MHz and 128MB 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/7/Vista-based WebOP Designer development tool
- Easy to switch one application to different LCD sizes in seconds
- Supports vertical and horizontal application screen rotation
- Supports over 400 PLC industrial communication protocols
- Communicates with up to four types of devices
- Panel mounting for machinery
- Front panel is IP66 compliant

## Introduction

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the WebOP-2000T series with 200MHz ARM9-based RISC CPU's and 128MB flash memory for application software. The WebOP-2000T series also support a variety of LCD sizes from 4.3" to 10.1" for different applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. The WebOP-2000T series is bundled with WebOP Designer: 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. WebOP Designer offers an outstanding price performance ratio for various markets such as conventional operator panels, HMI + Low mini SCADA systems, and HMI + communication gateways.

## Specifications

### General

- **Certification** CE, BSMI, CCC, UL, FCC Class A
- **Dimensions (WxHxD)** 188 x 143.3 x 30 mm (7.4" x 5.64" x 1.18")
- **Cut-out Dimensions** 175 x 132.5 mm (6.89" x 5.21")
- **Front Panel Thickness** 6mm
- **Operating System** HMI RTOS, WebOP Designer
- **Power Supply Voltage** 24V<sub>DC</sub> ±10%
- **Power Consumption** 10W
- **Enclosure Housing** Plastic
- **Mounting** Panel
- **Weight (Net)** 0.6 kg (1.32 lbs)

### System Hardware

- **CPU** RISC 32 bits, 200 MHz
- **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** WVGA TFT LCD
- **Display Size** 7"
- **Max. Resolution** 800 x 480
- **Max. Colors** 65,536 colors
- **Luminance (cd/m<sup>2</sup>)** 300
- **Backlight Life** LED, 20,000 hrs
- **Dimming** Adjustable by touch panel
- **Touchscreen** 4 wire analog resistive

### Environment

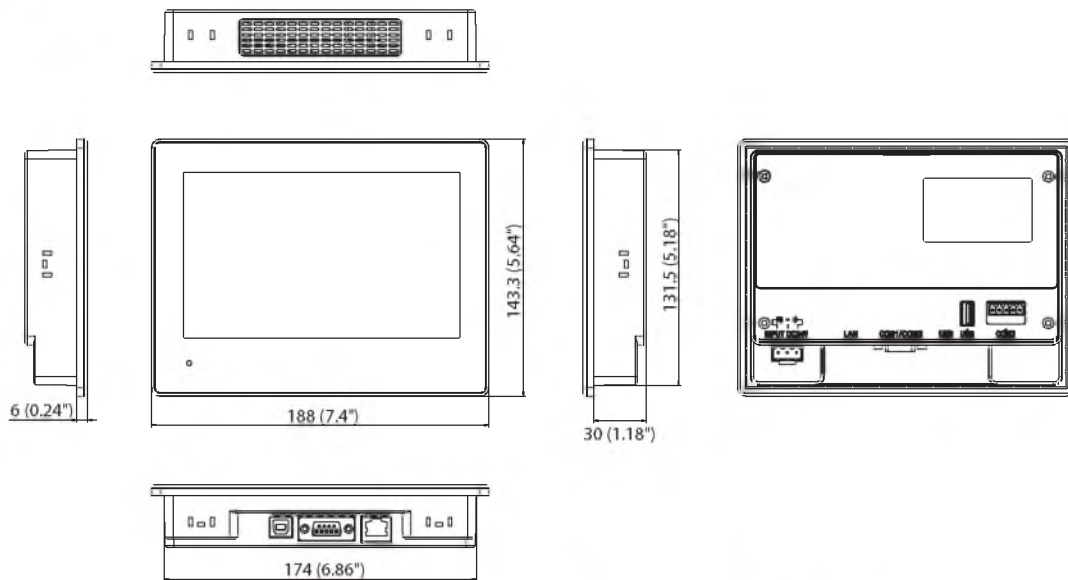
- **Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Humidity** 10 ~ 90% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** Operating, random vibration 1 Grms (5 ~ 500 Hz)

## Ordering Information

- **WOP-2070T-S2AE** 7" WVGA, 64MB (SDRAM), 8MB (NOR)
- **WOP-2070T-N2AE** 7" WVGA, 64MB (SDRAM), 8MB (NOR) & 128MB (NAND)

## Dimensions

Unit: mm

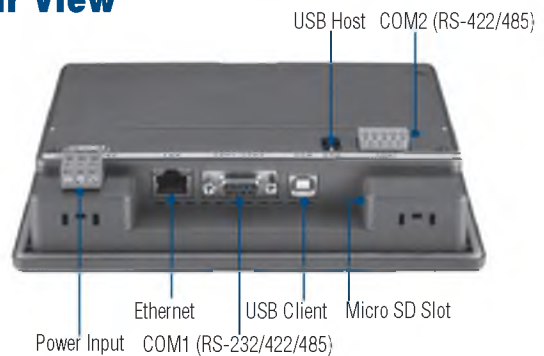


**Panel Cut Out Dimensions: 175 x 132.5mm (6.89" x 5.21")**

## Accessories

- **CWOP-P2HFM-AD12E** PC to HMI program download cable, DB9/2m
- **CWOP-P2HAB-ADU2E** PC to HMI program download cable, USB/2m
- **PWR-247-BE** 63W DC 24V/2.62A Output 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



## Communication Links

### Direct Link

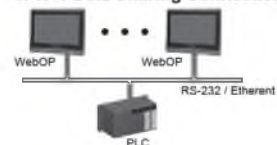
#### 1-to-1 Connection



#### 1-to-N Connection

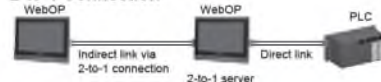


#### N-to-1 Data Sharing Connection

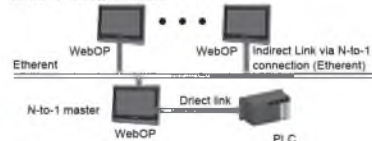


### In-Direct Link

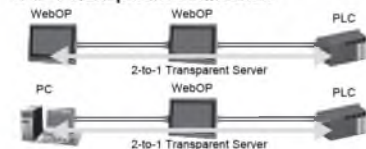
#### 2-to-1 Connection



#### N-to-1 Connection



#### 2-to-1 Transparent Connection



# WebOP-2035V

## 3.5" QVGA Operator Panel with WebOP Designer 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/7/Vista-based WebOP Designer development tool
- Easy to switch one application to different LCD sizes in seconds
- Supports vertical and horizontal application screen rotation
- Supports over 300 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-2000V series which are designed with ARM9-based RISC CPU with 70–200MHz and 4–16MB flash memory for application software. The WOP-2000V 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. WebOP Designer 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-2000V series is bundled with WebOP Designer 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, BSMI, CCC, UL, FCC Class A
- **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, WebOP Designer
- **Power Supply Voltage** 24V<sub>DC</sub> ±10%
- **Power Consumption** 10W
- **Enclosure Housing** Plastic
- **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
- **Luminance (cd/m<sup>2</sup>)** 350
- **Backlight Life** LED, 20,000 hrs
- **Dimming** Adjustable by touch panel
- **Touchscreen** 4 wire analog resistive

#### Environment

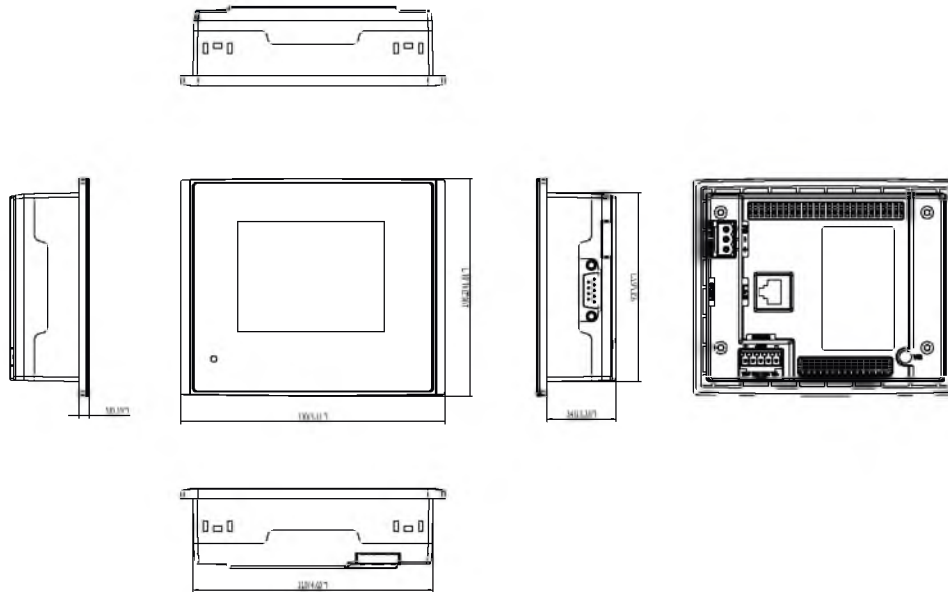
- **Operating Temperature** 0 – 50°C (32 – 122°F)
- **Storage Temperature** -20 – 60°C (-4 – 140°F)
- **Humidity** 10 – 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP65
- **Vibration Protection** Operating, random vibration 1 Grms (5 – 500 Hz)

### Ordering Information

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

## Dimensions

Unit: mm

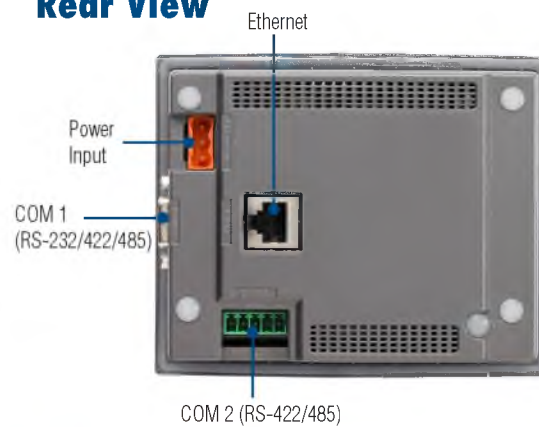


Panel Cut-out Dimensions: 118.5 x 92.5 mm (4.66" x 3.64")

## Accessories

- CWOP-P2HFM-AD12E PC to HMI program download cable, DB9/2m
- CWOP-P2HAB-ADU2E PC to HMI program download cable, USB/2m
- PWR-247-AE 24 V 50 W AC-DC Power Adapter
- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M

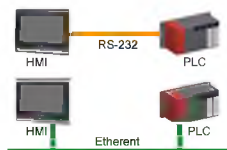
## Rear View



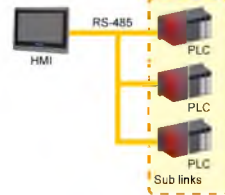
## Communication Links

### Direct Link

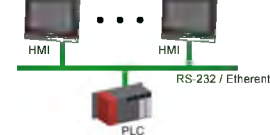
#### 1-to-1 Connection



#### 1-to-N Connection



#### N-to-1 Data Sharing Connection

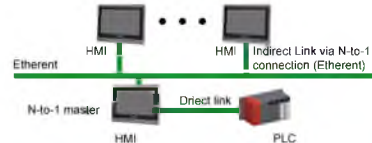


### In-Direct Link

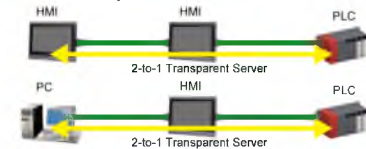
#### 2-to-1 Connection



#### N-to-1 Connection



#### 2-to-1 Transparent Connection



# WebOP-2057V

## 5.7" QVGA Operator Panel with WebOP Designer 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/7/Vista-based WebOP Designer development tool
- Easy to switch one application to different LCD sizes in seconds
- Supports vertical and horizontal application screen rotation
- Supports over 300 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-2000V series which are designed with ARM9-based RISC CPU with 70–200MHz and 4–16MB flash memory for application software. The WOP-2000V 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. WebOP Designer 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-2000V series is bundled with WebOP Designer 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, BSMI, CCC, UL, FCC Class A
- **Dimensions (WxHxD)** 187 x 145.7 x 45 mm (7.36" x 5.73" x 1.77")
- **Cut-out Dimensions** 175 x 132.5 mm (6.89" x 5.21")
- **Front Panel Thickness** 6mm
- **Operating System** HMI RTOS, WebOP Designer
- **Power Supply Voltage** 24V<sub>DC</sub> ±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** 4MB
- **Power-On LED** Yes
- **Communication LED** COM1 and COM2
- **Front USB Access** No

#### Communication Interface

- **COM1** RS-232/422/485 (DB9 Female)
- **COM2** RS-232/422/485 (DB9 Female & 5-Pin 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** 5.7"
- **Max. Resolution** 320 x 240
- **Max. Colors** 265 colors
- **Luminance (cd/m<sup>2</sup>)** 400
- **Backlight Life** LED, 20,000 hrs
- **Dimming** Adjustable by touch panel
- **Touchscreen** 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: IP65
- **Vibration Protection** Operating, random vibration 1 Grms (5 – 500 Hz)

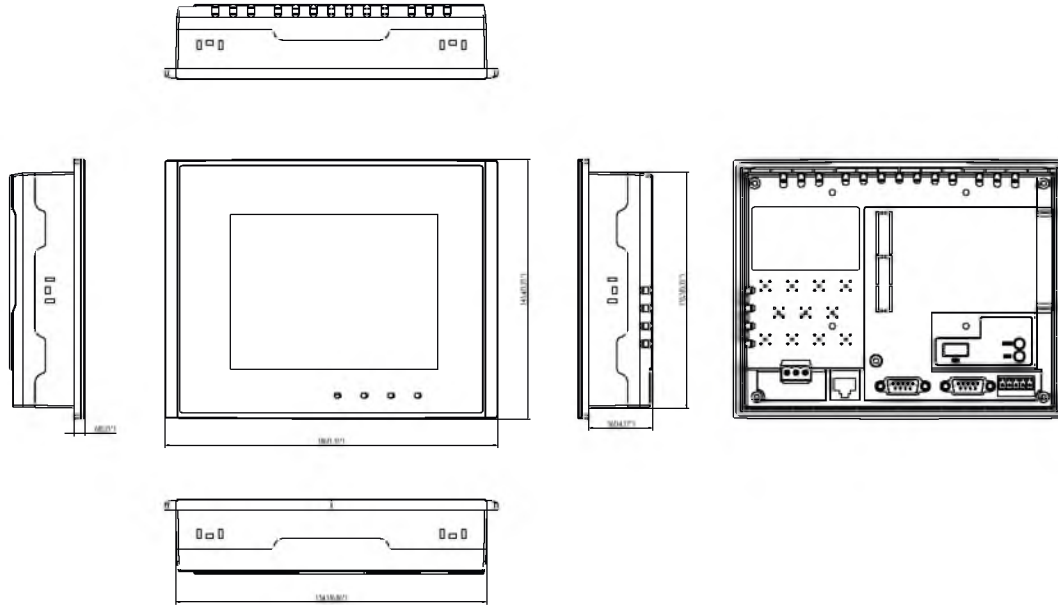
### Ordering Information

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



## Dimensions

Unit: mm

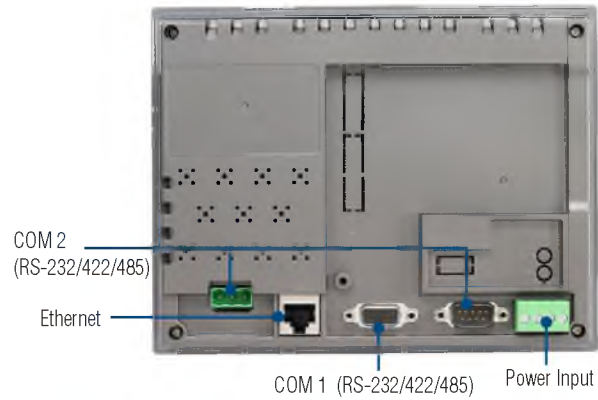


Panel Cut-out Dimensions: 175 x 132.5 mm (6.89" x 5.21")

## Accessories

- CWOP-P2HFM-AD12E PC to HMI program download cable, DB9/2m
- CWOP-P2HAB-ADU2E PC to HMI program download cable, USB/2m
- PWR-247-AE 24 V 50 W AC-DC Power Adapter
- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M

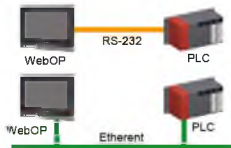
## Rear View



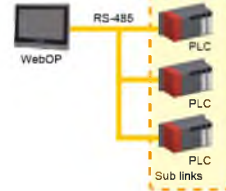
## Communication Links

### Direct Link

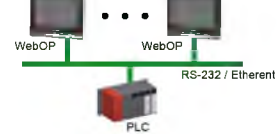
#### 1-to-1 Connection



#### 1-to-N Connection



#### N-to-1 Data Sharing Connection

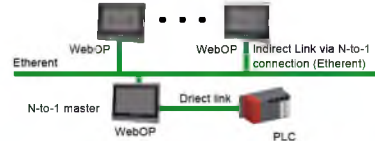


### In-Direct Link

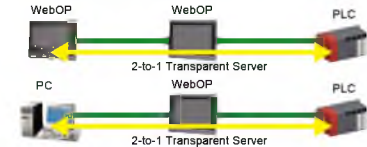
#### 2-to-1 Connection



#### N-to-1 Connection



#### 2-to-1 Transparent Connection



# WebOP-2080T

8" SVGA Operator Panel with  
WebOP Designer Software



## Features

- Various LCD sizes (4.3", 5.6", 7", 8", 10.1")
- Supports ARM9-based CPUs with 200MHz and 128MB 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/7/Vista-based WebOP Designer development tool
- Easy to switch one application to different LCD sizes in seconds
- Supports vertical and horizontal application screen rotation
- Supports over 400 PLC industrial communication protocols
- Communicates with up to four types of devices
- Panel mounting for machinery
- Front panel is IP66 compliant

## Introduction

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the WebOP-2000T series with 200MHz ARM9-based RISC CPU's and 128MB flash memory for application software. The WebOP-2000T series also support a variety of LCD sizes from 4.3" to 10.1" for different applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. The WebOP-2000T series is bundled with WebOP Designer: 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. WebOP Designer offers an outstanding price performance ratio for various markets such as conventional operator panels, HMI + Low mini SCADA systems, and HMI + communication gateways.

## 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<sub>DC</sub> ±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/m<sup>2</sup>)** 250
- **Backlight Life** LED, 30,000 hrs
- **Dimming** Adjustable by touch panel
- **Touchscreen** 4 wire 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, random vibration 1 Grms (5 ~ 500 Hz)

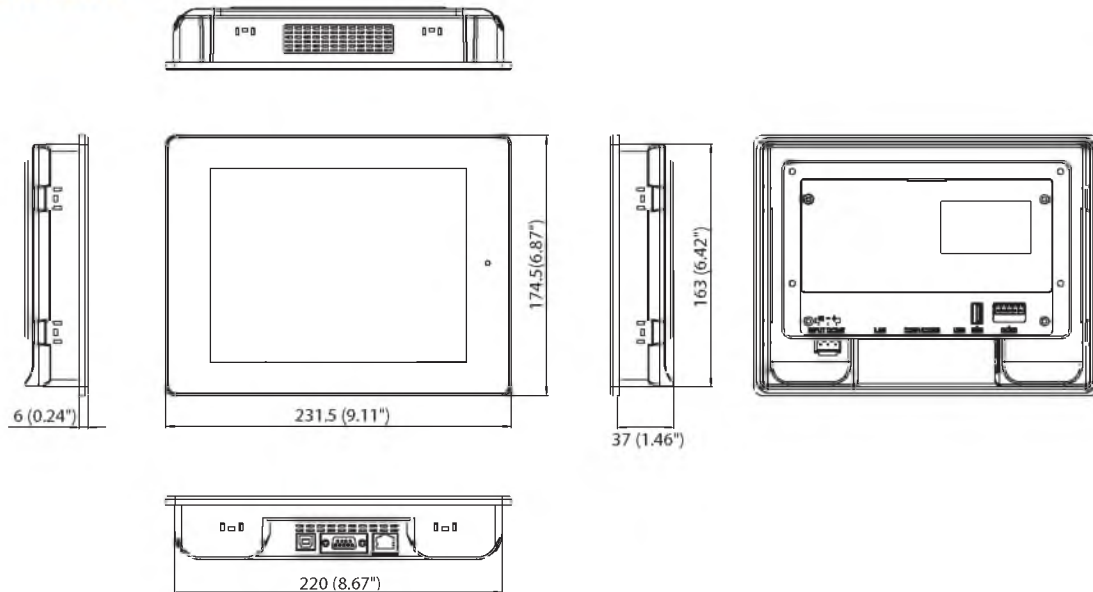
## Ordering Information

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



## Dimensions

Unit: mm

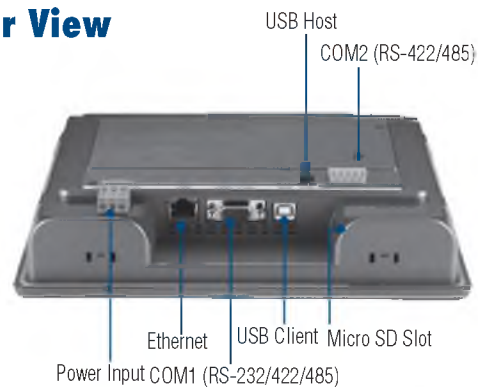


**Panel Cut-out Dimensions: 221 x 164 mm (8.70" x 6.46")**

## Accessories

- **CWOP-P2HFM-AD12E** PC to HMI program download cable, DB9/2m
- **CWOP-P2HAB-ADU2E** PC to HMI program download cable, USB/2m
- **PWR-247-BE** 63W DC 24V/2.62A Output 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



## Communication Links

### Direct Link

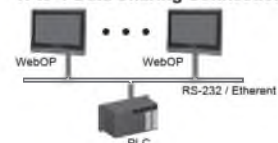
#### 1-to-1 Connection



#### 1-to-N Connection

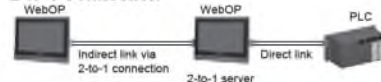


#### N-to-1 Data Sharing Connection

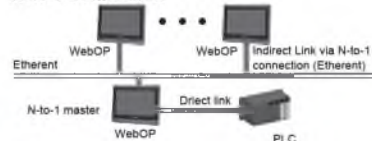


### In-Direct Link

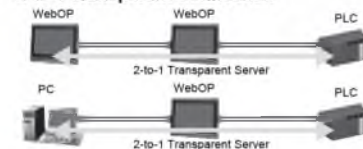
#### 2-to-1 Connection



#### N-to-1 Connection



#### 2-to-1 Transparent Connection



# WebOP-2121V

## 12.1" SVGA Operator Panel with WebOP Designer 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/7/Vista-based WebOP Designer development tool
- Easy to switch one application to different LCD sizes in seconds
- Supports vertical and horizontal application screen rotation
- Supports over 400 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 WebOP-2000V series which are designed with ARM9-based RISC CPU with 70–200MHz and 4–16MB flash memory for application software. The WebOP-2000V 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. WebOP Designer 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 WebOP-2000V series is bundled with WebOP Designer 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

- **Certification** CE, BSMI, CCC, UL, FCC Class A
- **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, WebOP Designer
- **Power Supply Voltage** 24V<sub>DC</sub> ±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 No
  - USB Host Yes
  - Micro-SD Slot No

#### LCD Display and Touchscreen

- **Display Type** SVGA TFT LCD
- **Display Size** 12.1"
- **Max. Resolution** 800 x 600
- **Max. Colors** 65,536 colors
- **Luminance (cd/m<sup>2</sup>)** 350
- **Backlight Life** CCFL, 30,000
- **Dimming** Adjustable by touch panel
- **Touchscreen** 8 wire analog resistive

#### Environment

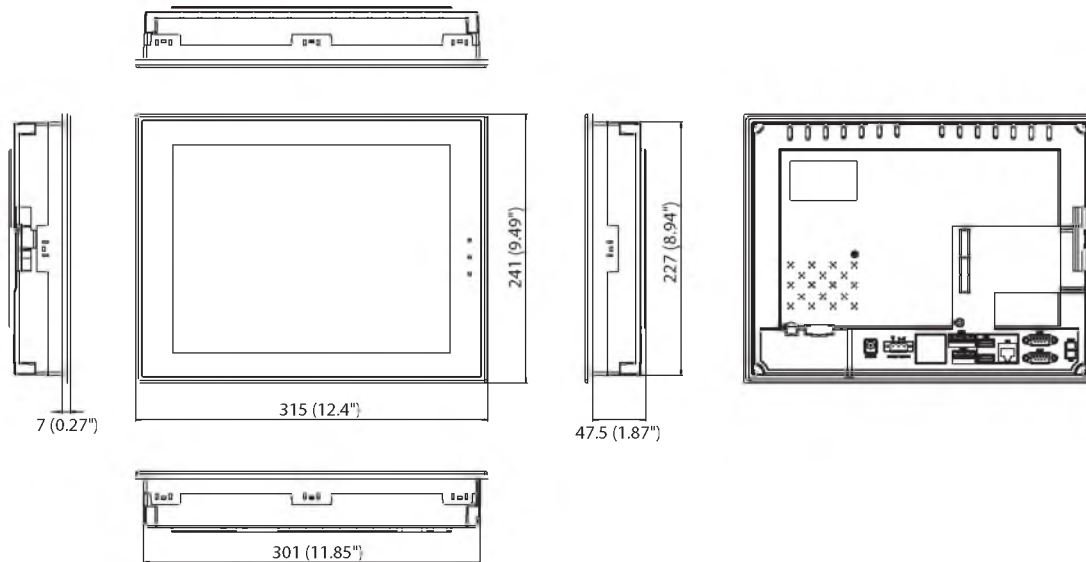
- **Operating Temperature** 0 – 50°C (32 – 122°F)
- **Storage Temperature** -20 – 60°C (-4 – 140°F)
- **Humidity** 10 – 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP65
- **Vibration Protection** Operating, random vibration 1 Grms (5 – 500 Hz)

### Ordering Information

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

## Dimensions

Unit: mm

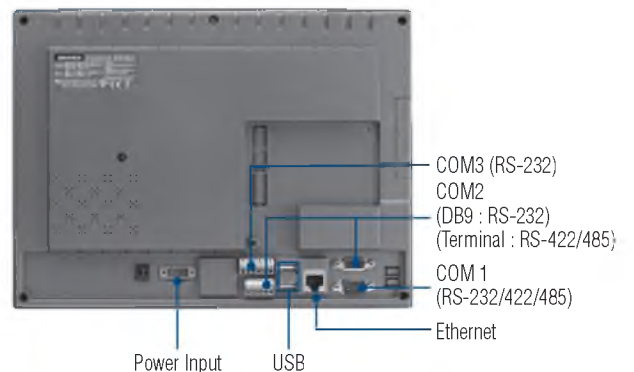


**Panel Cut-out Dimensions: 301.5 x 228 mm (11.87" x 8.97")**

## Accessories

- **CWOP-P2HFM-AD12E** PC to HMI program download cable, DB9/2m
- **CWOP-P2HAB-ADU2E** PC to HMI program download cable, USB/2m
- **PWR-247-BE** 63W DC 24V/2.62A Output 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

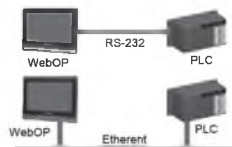
## Rear View



## Communication Links

### Direct Link

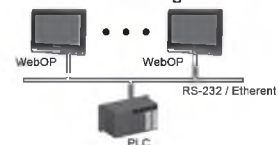
#### 1-to-1 Connection



#### 1-to-N Connection

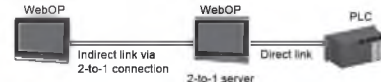


#### N-to-1 Data Sharing Connection

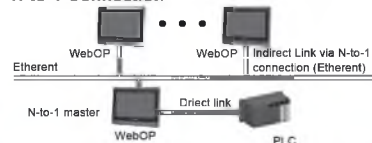


### In-Direct Link

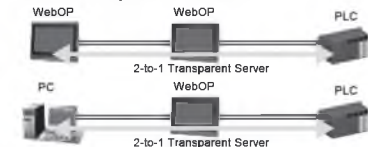
#### 2-to-1 Connection



#### N-to-1 Connection



#### 2-to-1 Transparent Connection



# WebOP-3070T

7" WVGA Cortex™ - A8  
Operator Panel with  
Wide Operating Temperature Range

NEW



## Features

- RISC 32 bits TI ARM® Cortex™-A8 processor
- Various LCD sizes (7", 10.1", 12")
- Full line LED BL TFT LCD with 50K life time
- Embedded Microsoft® WinCE 6.0 OS
- Bundle Panel Express HMI Runtime software (300 tags)
- Backup Memory FRAM in 128KB (64 words) without battery concern
- Power & Terminal I/O ports isolation protection
- -20°C ~ 60°C wide operating temperature range
- Support CANopen library registered by CiA 301 V4.02
- RS-422/RS-485/CAN terminal I/O ports support Termination Resistor 120Ω
- Front panel IP66 compliant
- Die-cast aluminum alloy front bezel
- Level 4 ESD protection (Air:15KV / Contact:8KV)
- Industrial Control Equipment - UL 508 certification

## Introduction

With brand-new ID design, the WebOP-3070T provides stringent standards required in the automation market. Advantech offers the WebOP-3070T with Cortex™-A8 processor which consumes minimum power without sacrificing performance. The WebOP-3000T supports a variety of LCD sizes from 4.3" to 12" for different applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. It's also provided with a wide operating temperature range to fulfill the requirements of harsh environments. The built-in Microsoft® WinCE 6.0 OS platform which bundles WebOP Designer lets the WebOP-3070T becomes a control HMI solution for flexible system integration.

## Specifications

### General

- **Certification** CE, BSMI, CCC, UL, FCC Class A
- **Dimensions (WxHxD)** 203.4 x 150 x 43.7 mm (8.01" x 5.91" x 1.72")
- **Cut-out Dimensions** 192 x 138.5 mm (7.56" x 5.45")
- **OS Support** Microsoft® Windows CE 6.0
- **Power Input** 24V<sub>DC</sub> ±10%
- **Power Consumption** 7W (Typical)
- **Enclosure Housing** PC + ABS
- **Mounting** Panel
- **Weight (Net)** 1 Kg (2.20 lbs)

### System Hardware

- **CPU** RISC 32 bits, 600 MHz (ARM® Cortex™-A8)
- **Backup Memory** FRAM 1M bit (=128K Byte, 64word)
- **Memory** DDR2 256MB on board
- **Storage** 512MB on board SLC type
- **Power-On LED** Yes

### Communication Interface

- **COM1** RS-232/422/485 (DB9 Male)
- **COM2** RS-422/485 (Terminal Plug 4-Pin)
- **COM3** RS-485 (Terminal Plug 2-Pin)
- **CAN** Terminal Plug 2-Pin
- **Ethernet (RJ45)** 10/100-BaseT
- **I/Os**

USB Client	USB 2.0 Client x 1
USB Host	USB 2.0 Host x 1
Micro-SD Slot	Yes
Audio	1 Line-out / 1 Mic-in

### LCD Display

- **Display Type** WVGA TFT LCD
- **Display Size** 7"
- **Max. Resolution** 800 x 480
- **Max. Colors** 64K
- **Luminance (cd/m²)** 500
- **Viewing Angle (H/V)** 140/120
- **Backlight Life** LED, 50,000 hrs
- **Dimming** Adjustable by touch panel
- **Contrast Ratio** 700:1

### Touchscreen

- **Lifespan** 36 million touches at 8mm-diameter finger point through silicone rubber bearing at least 250g 2 times per second.
- **Light** Transmission Above 80%
- **Resolution** Linearity
- **Type** 5-wire, analog resistive

### Environment

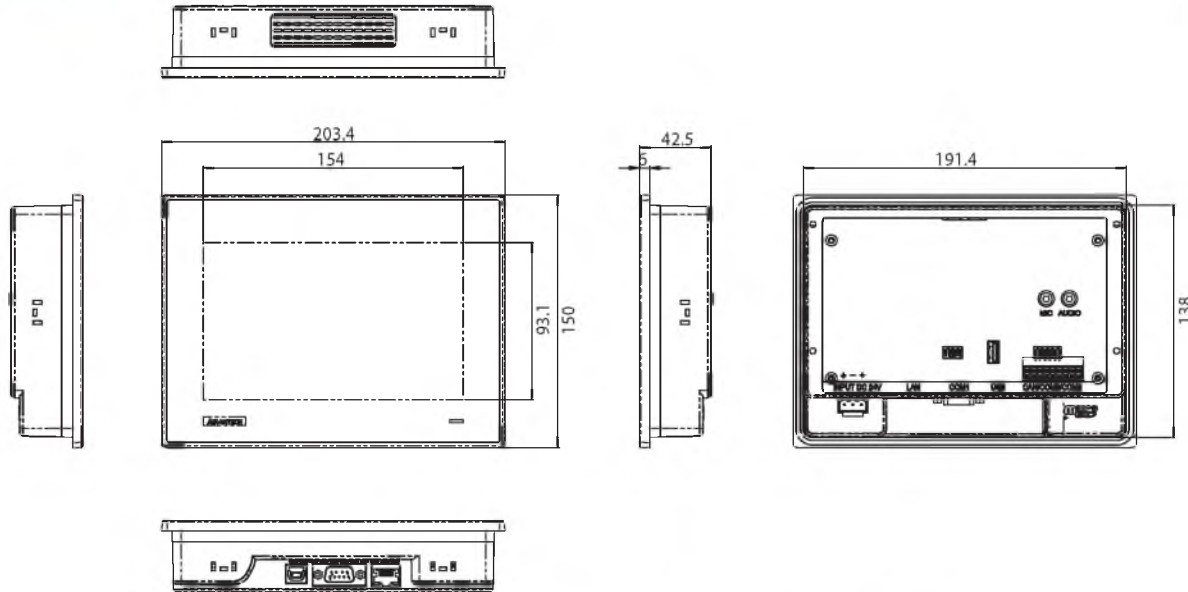
- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Storage Temperature** -30 ~ 70°C (-22 ~ 158°F)
- **Humidity** 10% ~ 90% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** Operating, random vibration 1 Grms (5 ~ 500 Hz)

## Ordering Information

- **WOP-3070T-C4AE** 7" WVGA, Cortex™-A8, 256MB DDR, WinCE 6.0

## Dimensions

Unit: mm



**Panel Cut Out Dimensions: 192 x 138.5 mm (7.56" x 5.45")**

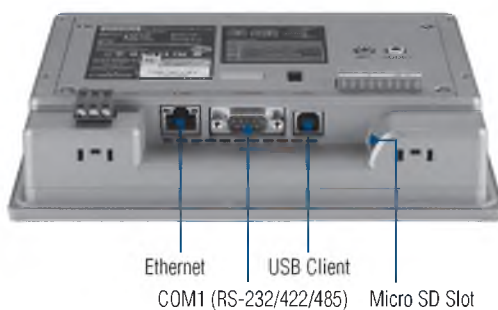
## Accessories

- **PWR-247-BE** 63W DC 24V/2.62A Output Power Supply
- **WOP-3000T-WMKE** WOP-3000T Series Wallmount Kits
- **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

## Automation Software

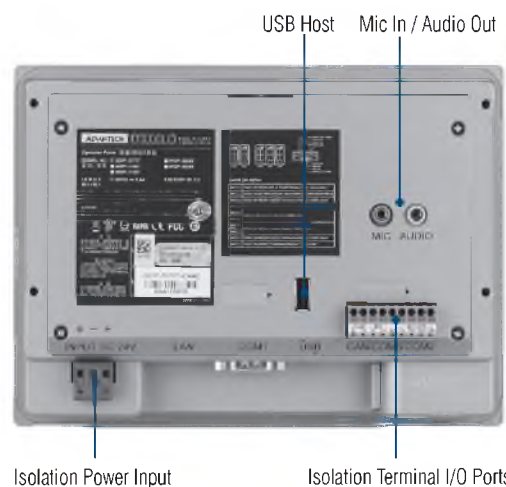
- **968WEXP015E** PanelExpress V2.0 1500 tags S/W license (WinCE)
- **968WEXP050E** PanelExpress V2.0 5000 tags S/W license (WinCE)

## Base View



Ethernet  
COM1 (RS-232/422/485)  
USB Client  
Micro SD Slot

## Rear View



Isolation Power Input  
Isolation Terminal I/O Ports



Isolation Terminal I/O Ports



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