

# 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
- Supports WebOP Designer HMI Runtime development tool
- 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
- Supports 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 7" 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.

### 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 128KB
- **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/m<sup>2</sup>)** 500

- **Viewing Angle (H/V)** 140/120
- **Backlight Life** LED, 50,000 hrs
- **Dimming** Adjustable by touch panel
- **Contrast Ratio** 700:1

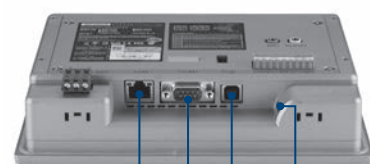
#### Touchscreen

- **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)

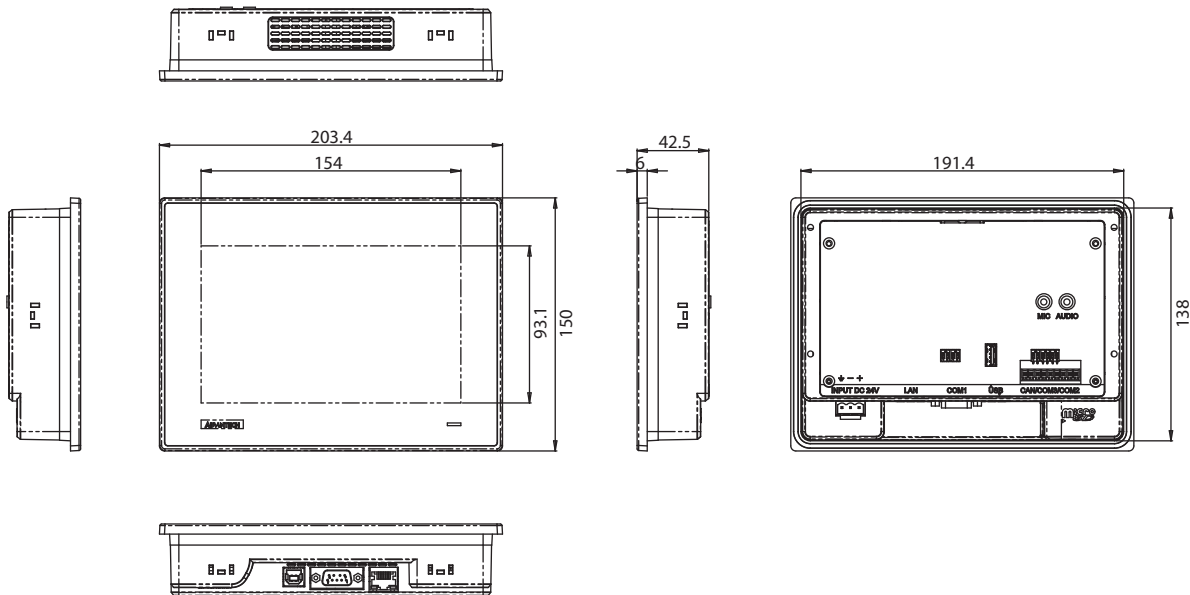
### Base View



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

## Dimensions

Unit: mm



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

## Ordering Information

- WOP-3070T-C4BE 7" WVGA, Cortex™-A8, 256MB DDR, WinCE 6.0

## Optional Accessories

- PWR-247-CE 24 V 60 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

## S/W Bundle Offering

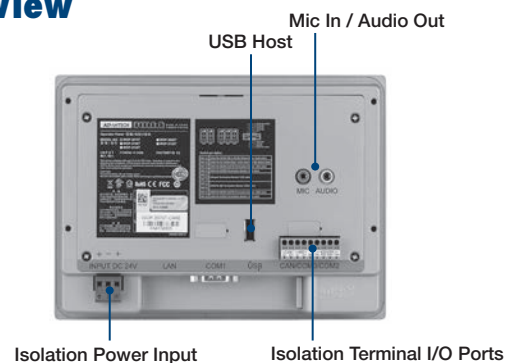
- WA-HT3070T-R15H0AE WOP-3070T-C4BE with WebAccess/HMI Runtime

## Application Software

### WebAccess/HMI

WebAccess/HMI is Human Machine Interface (HMI) software based on Microsoft's Windows operating system. It utilizes a PC's ample resources, ie speed, storage, multimedia, peripheral devices, and large screen to produce a complex human-machine interface. WebAccess/HM with its communication and monitoring ability supports more than 350 PLC communication protocols and a wide choice of screen design objects, to satisfy multiple integrations of factory automation and all-round human-machine interface operation and monitoring requirements.

## Rear View



Isolation Terminal I/O Ports