# 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", 15")
- 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 4.3" to 15" 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** — 24$V_{DC}$ ±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/m²)** — 500
- **Viewing Angle (H/V)** — 140/120
- **Backlight Life** — LED, 50,000 hrs
- **Dimming** — Adjustable by touch panel
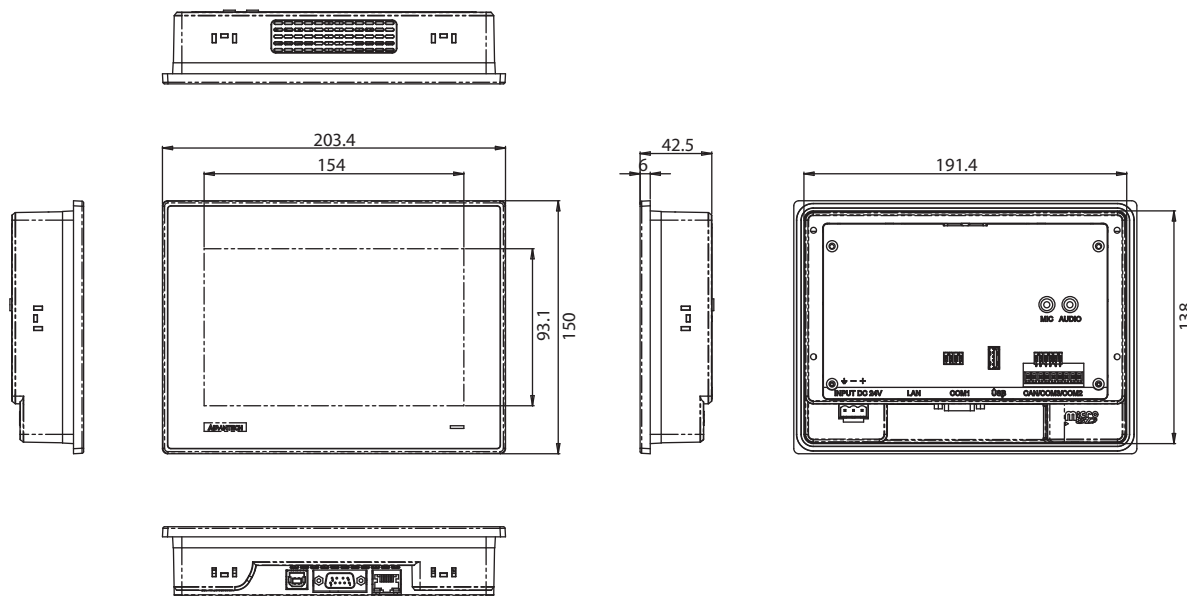- **Contrast Ratio** — 700:1

### 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, radom vibration 1 Grms (5 ~ 500 Hz)

## Dimensions

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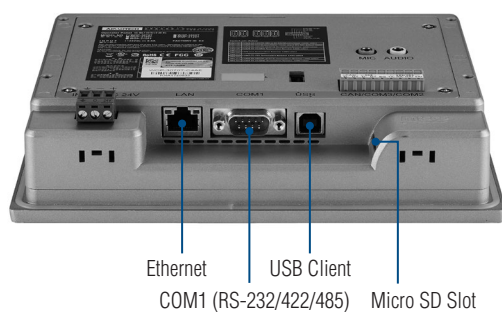
**Panel Cut Out Dimensions: 192 x 138.5 mm (7.56" x 5.45")**

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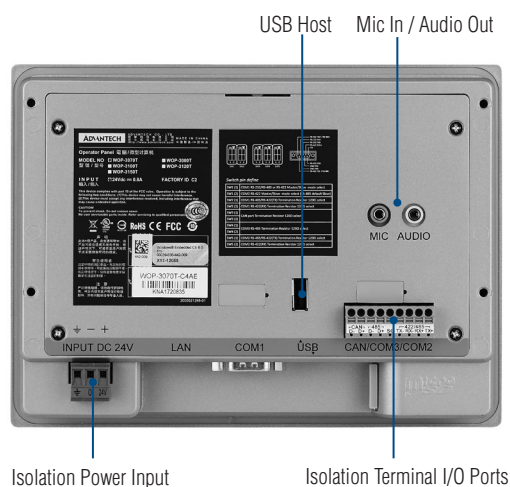
- **WOP-3070T-C4AE**    7" WVGA, Cortex™-A8, 256MB DDR, WinCE 6.0

## Accessories

- **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

## Base View

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

## Rear View

USB Host    Mic In / Audio Out

Isolation Power Input    Isolation Terminal I/O Ports

CAN D- D+ / 485 D- D+ SG / 422/485 TX- RX- RX+ TX+

CAN/COM3/COM2

Isolation Terminal I/O Ports

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