WebOP-3070T

7" WVGA Operator Panel with ARM® Cortex™-A8 RISC Processor and Wide Operating Temperature

Features

- ARM® Cortex™-A8 32-bit, 600 MHz, RISC processor
- Available with a variety of LCD sizes (7/10.1/12")
- TFT LCD with 50K lifetime and LED backlight
- Embedded Microsoft® WinCE 6.0 OS
- Supports Advantech's WebOP Designer HMI Runtime development tool
- 128 KB (64 words) Backup memory FRAM without battery concerns
- Isolation protection for power and terminal I/O ports
- Wide operating temperature range -20 ~ 60 °C (-4 ~ 140 °F)
- Supports the CANopen library defined by the CiA 301 V4.02 specification
- RS-422, RS-485, CAN terminal I/O ports support terminating resistor value of 120Ω
- IP66-rated front panel
- Die cast aluminum alloy front bezel
- Level 4 ESD protection (Air: 15KV/Contact: 8KV)
- UL 508 certification for industrial control equipment

Introduction

The WebOP-3070T operator panel is powered by an ARM® Cortex™-A8 32-bit, 600 MHz, RISC processor that consumes minimal power without sacrificing performance and satisfies the stringent standards set for the automation market. Additionally, the WebOP-3070T system can be equipped with a variety of LCD sizes, ranging from 7 to 12", for diverse applications that involve PLCs, motion/thermal controllers, inverters, and sensors. Furthermore, the WebOP-3070T system supports a wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F) to ensure reliable operation in harsh industrial environments.

Specifications

General

- **Certification**   CE, BSMI, CCC, UL, FCC Class A
- **Dimensions (W x H x D)**   203.4 x 150 x 43.7 mm (8.01 x 5.91 x 1.72 in)
- **Cutout Dimensions**   192 x 138.5 mm (7.56 x 5.45 in)
- **OS Support**   Microsoft® Windows CE 6.0
- **Power Input** $24V_{DC} \pm 10\%$
- **Power Consumption**   7W (Typical)
- **Enclosure Housing**   PC + ABS
- **Mounting**   Panel
- **Weight (Net)**   1 kg (2.20 lbs)

System Hardware

- **CPU**   ARM® Cortex™-A8 32-bit, 600 MHz, RISC processor
- **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)**   10/100BASE-T
- **I/Os**   1 x USB 2.0 (Client)
  - 1 x USB 2.0 (Host)
  - 1 x micro SD slot
  - 1 x Audio line out, 1 x 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 hr
- **Dimming**   Adjustable by touch panel
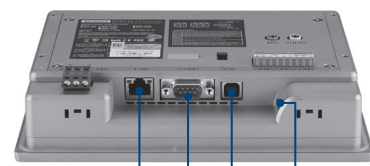- **Contrast Ratio**   700:1

Touchscreen

- **Lifespan**   36 million touches of 8 mm in diameter through silicone rubber with at least 250 g load
- **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
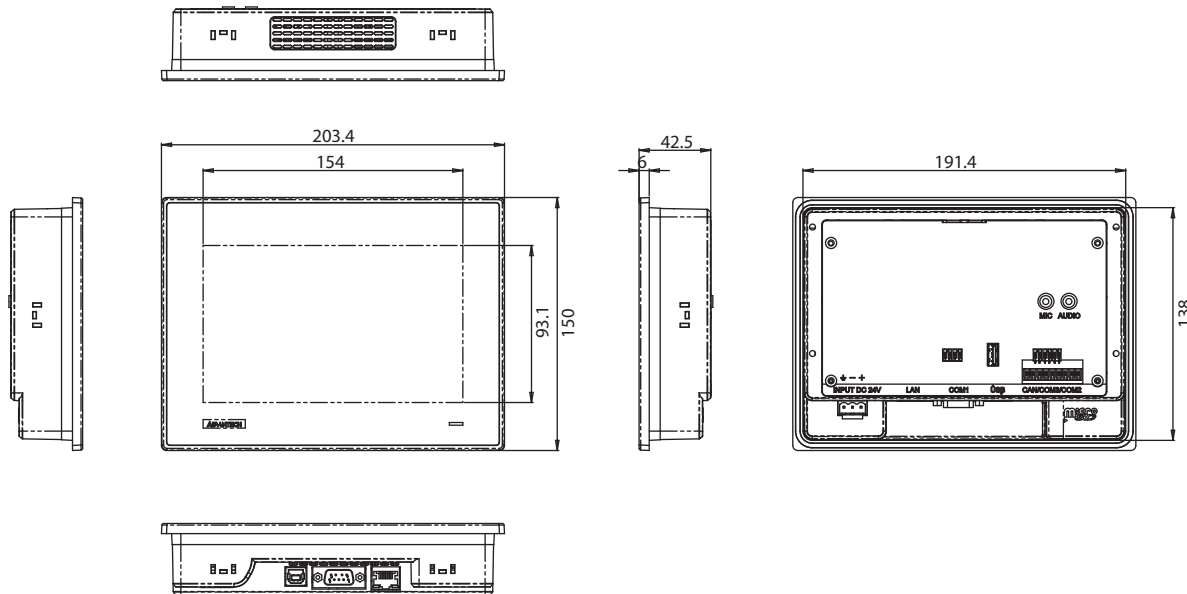- **Vibration Protection**   Operating, random vibration 1 Grms (5 ~ 500 Hz)

Base View

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

ADVANTECH   **Industrial Operator Panels**

All product specifications are subject to change without notice.   Last updated: 27-Jun-2018

Dimensions

Unit: mm

203.4
154
42.5
6
191.4
93.1
150
138

Panel Cutout Dimensions: 192 x 138.5 mm (7.56 x 5.45 in)

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
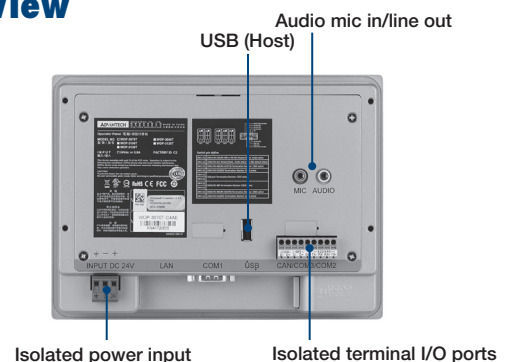- **1702031836**   Power Cable China/Australia Plug 1.8 M

S/W Bundle Offering

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

Application Software

WebAccess/HMI	Advantech WebAccess/HMI is human-machine interface (HMI) software based on Microsoft's Windows operating system. This software features excellent communication and monitoring capabilities, supports more than 350 PLC communication protocols, and offers a wide choice of screen design objects to satisfy diverse integrations of factory automation and HMI operation and monitoring requirements.

Rear View

Audio mic in/line out
USB (Host)

Isolated power input
Isolated terminal I/O ports

CAN D- CAN D+ 485 D- 485 D+ SG TX- RX- 422/485 RX+ TX+
CAN/COM3/COM2

Isolated terminal I/O ports