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	$24V_{DC}$ ±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

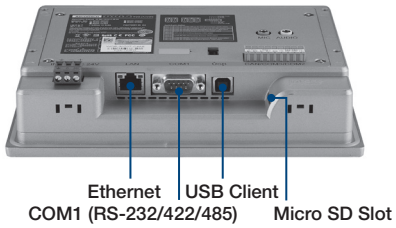
Touchscreen

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

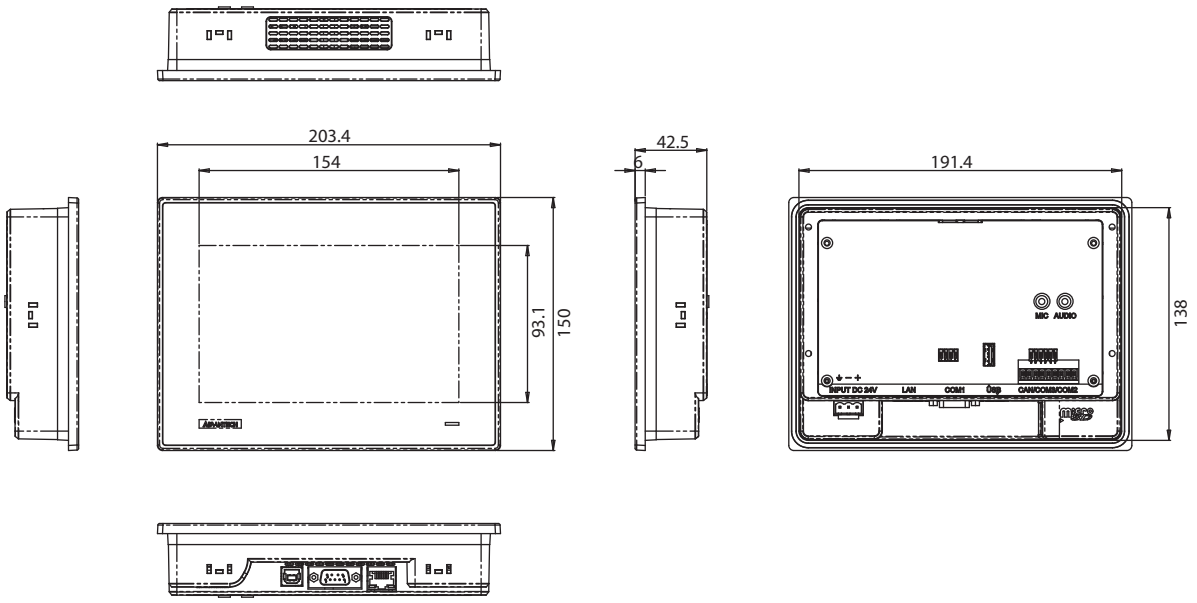
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-30 ~ 70 °C (-22 ~ 158 °F)
Humidity	10 ~ 90% RH @ 40 °C, non-condensing
Ingress Protection	Front panel: IP66
Vibration Protection	Operating, random vibration 1 Grms (5 ~ 500 Hz)

Base View



Dimensions

Unit: mm



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

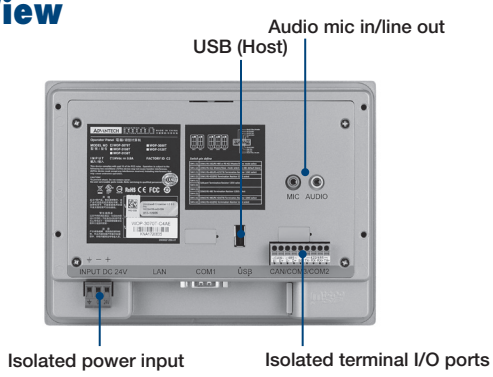
S/W Bundle Offering

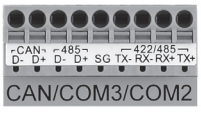
- **WA-HT3070T-R15H0AE** WOP-3070T-C4BE with WebAccess/HMI Runtime

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





Isolated terminal I/O ports