WebOP-3120T

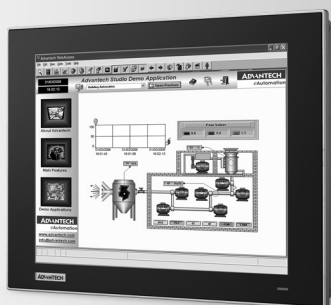## 12" XGA Cortex™ - A8 Operator Panel with Wide Operating Temperature Range

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

CE FCC c(UL)us LISTED E180881 I.T.E. CCC R33138

Introduction

With brand-new ID design, the WebOP-3120T provides stringent standards required in the automation market. Advantech offers the WebOP-3120T 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-3120T become a control HMI solution for flexible system integration.

Specifications

General

Certification	CE, BSMI, CCC, UL-508, FCC Class A
Dimensions (WxHxD)	311.8 x 238 x 54.5 mm (12.28" x 9.37" x 2.15")
Cut-out Dimensions	302.5 x 228.5 mm (12.1" x 9.14")
OS Support	Microsoft® Windows CE 6.0
Power Input	24 V_{DC} ±10%
Power Consumption	20 W
Enclosure Housing	PC + ABS
Mounting	Panel
Weight (Net)	2.5 kg (5.51 lb)

System Hardware

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

Communication Interface

COM1	RS-232/RS-422,RS-485 (DB9), 300~115.2 kbps
COM2	RS-422/RS-485 (Terminal 4 pin+Ground), 300~115.2 kbps
COM3	RS-485 (Terminal 2 pin), 300~115.2 kbps
CAN	Terminal 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 (Top) Micro-SD Slot — Yes Audio — 1 Line-out / 1 Mic-in

LCD Display

Display Type	XGA TFT LCD
Display Size	12"
Max. Resolution	1024 x 768
Max. Colors	64K
Luminance (cd/m²)	500
Viewing Angle (H/V)	160/140
Backlight Life	LED, 50,000 hrs
Dimming	Adjustable by touch panel
Contrast Ratio	500:1

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

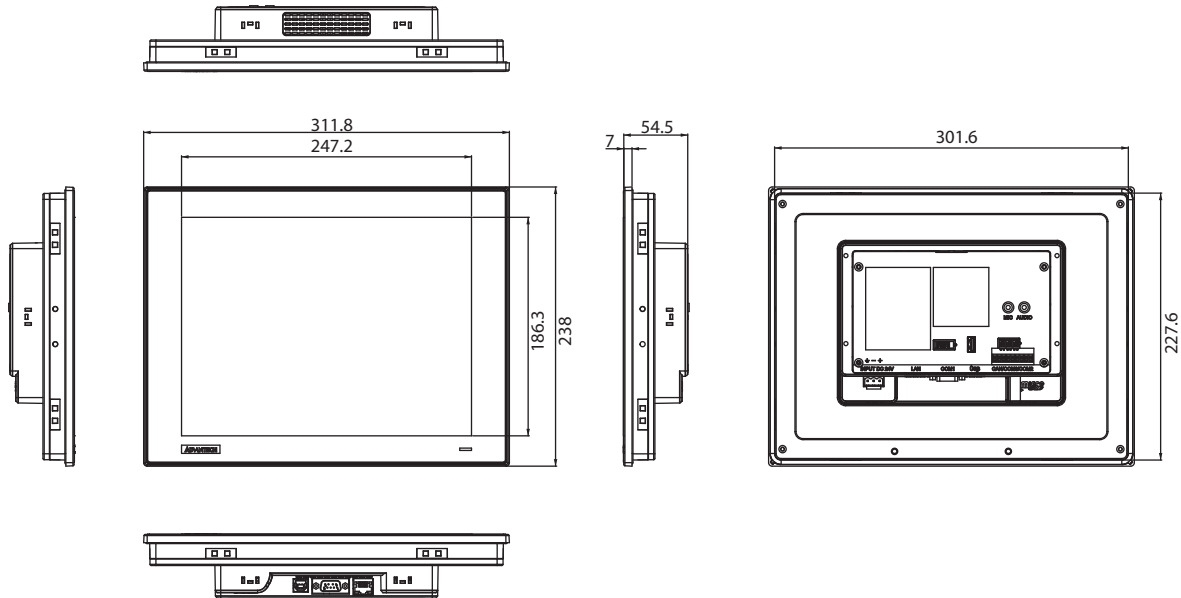|	
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)
Storage Temperature	-30 ~ 70°C (-22 ~ 158°F)
Humidity	10% ~ 90% RH @ 40°C, non-condensing
Ingress Protection	Front panel: IP66
Vibration Protection	Operating, radom vibration 1 Grms (5 ~ 500 Hz)

Ordering Information

WOP-3120T-C4AE	12" XGA, Cortex™-A8, 256MB DDR, WinCE 6.0

Accessories

All product specifications are subject to change without notice

Date updated: 5-Nov-2014

Dimensions

Unit: mm

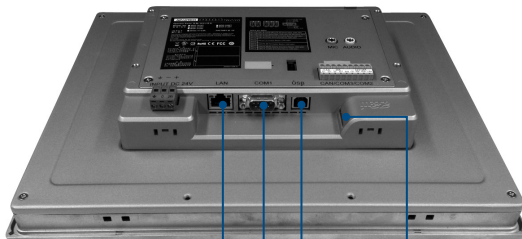311.8
247.2
54.5
7
301.6
186.3
238
227.6

Panel Cut-out Dimensions: 302.5 x 228.5 mm (12.1" x 9.14")

- **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
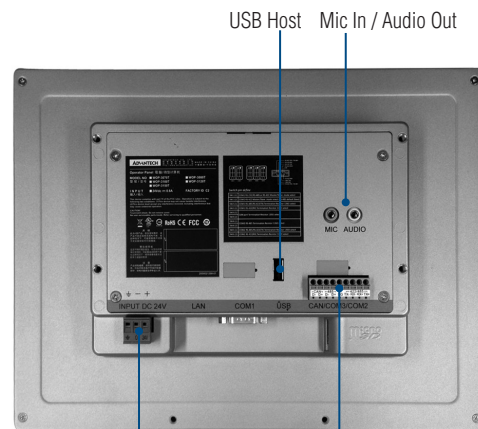
Automation Software

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

Base View

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

Rear View

USB Host   Mic In / Audio Out

Isolation Power Input   Isolation Terminal I/O Ports

CAN- 485 422/485
D- D+ D- D+ SG TX- RX- RX+ TX+
CAN/COM3/COM2
Isolation Terminal I/O Ports