WebOP-3100T

10.1" WSVGA 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
- Support 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
- 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

Introduction

With brand-new ID design, the WebOP-3100T provides stringent standards required in the automation market. Advantech offers the WebOP-3100T 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-3100T become a control HMI solution for flexible system integration.

Specifications

General

Certification	CE, BSMI, CCC, UL, FCC Class A
Dimensions (WxHxD)	271.5 x 213.5 x 43.2 mm (10.69" x 8.41" x 1.7")
Cut-out Dimensions	260 x 201.5 mm (10.24" x 7.93")
OS Support	Microsoft® Windows CE 6.0
Power Input	$24V_{DC}$ ±10%
Power Consumption	9W (Typical)
Enclosure Housing	PC + ABS
Mounting	Panel
Weight (Net)	1.2 kg (2.65 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

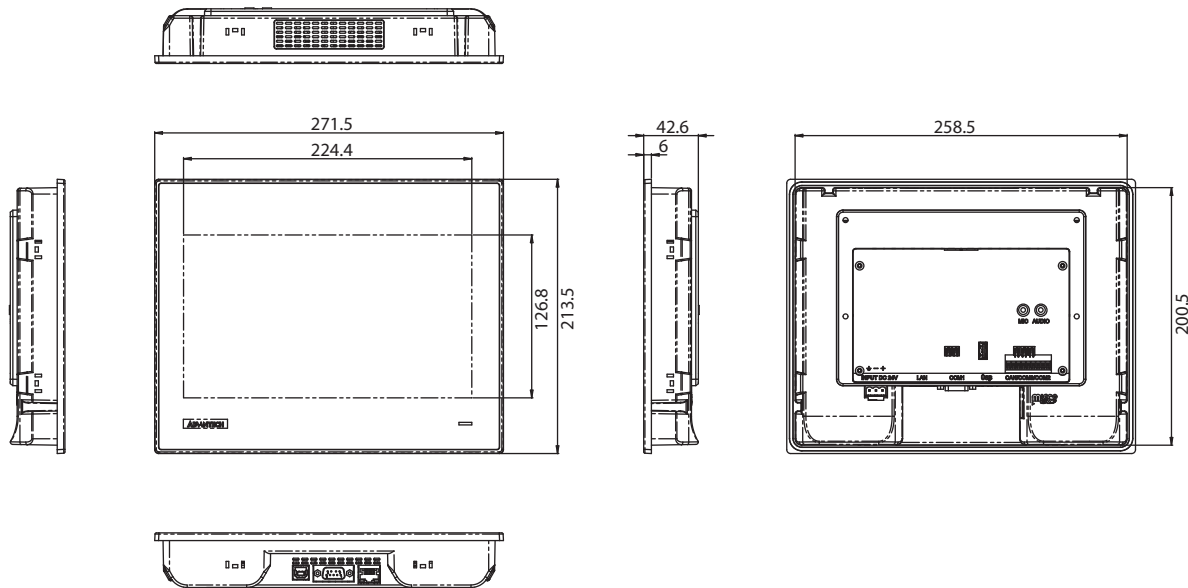|	
Display Type	WSVGA TFT LCD
Display Size	10.1"
Max. Resolution	1024 x 600
Max. Colors	64K
Luminance (cd/m²)	550
Viewing Angle (H/V)	140/110
Backlight Life	LED, 50,000 hrs
Dimming	Adjustable by touch panel
Contrast Ratio	500:1

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)

Dimensions

Unit: mm

271.5
224.4
126.8
213.5
42.6
6
258.5
200.5

Panel Cut-out Dimensions: 260 x 201.5 mm (10.24" x 7.93")
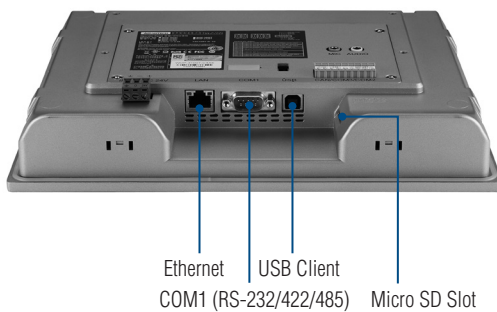
Ordering Information

- **WOP-3100T-C4AE**   10.1" WSVGA, 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- 485 422/485
D- D+ D- D+ SG TX- RX- RX+ TX+

CAN/COM3/COM2

Isolation Terminal I/O Ports