Web0P-3100T

10.1" WSVGA 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 (7/10.1/12/15")
- 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

550

140/110

500:1

LED, 50,000 hr

Adjustable by touch panel

36 million touches of 8 mm in diameter through

Introduction

The WebOP-3100T 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-3100T system can be equipped with a variety of LCD sizes, ranging from 7 to 15", for diverse applications that involve PLCs, motion/thermal controllers, inverters, and sensors. Furthermore, the WebOP-3100T 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) 271.5 x 213.5 x 43.2 mm (10.69 x 8.41 x 1.7 in)
- **Cutout Dimensions** 260 x 201.5 mm (10.24 x 7.93 in)

OS Support

Power Input

24V_{DC} ±10% 9W (Typical)

Panel

Power Consumption

 Enclosure Housing PC + ABS

- Mounting
- Weight (Net) 1.2 kg (2.65 lbs)

System Hardware

- CPU

Backup Memory

- Memory
- Storage
- Power-On LED

Ethernet (RJ45)

Communication Interface

 COM1 RS-232/422/485 (DB9 Male)

Yes

- COM2
- COM3 CAN

I/Os

RS-422/485 (Terminal Plug 4-Pin) RS-485 (Terminal Plug 2-Pin) Terminal Plug 2-Pin 10/100BASE-T 1 x USB 2.0 (Client)

FRAM 128KB

DDR2 256MB on board

1 x USB 2.0 (Host) 1 x micro SD slot 1 x Audio line out, 1 x mic in

Microsoft® Windows CE 6.0

LCD Display

- Display Type WSVGA TFT LCD
- Display Size
- Max. Resolution
- Max. Colors

- Luminance (cd/m²) Viewing Angle (H/V)
- **Backlight Life**
- Dimming
- Contrast Ratio

Touchscreen Lifespan

- Light
- Type

- Storage Temperature
 - -30 ~ 70 °C (-22 ~ 158 °F) 10 ~ 90% RH @ 40 °C, non-condensing



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

AD\ANTECH **Industrial Operator Panels**

10.1"

64K

1024 x 600

silicone rubber, with at least 250 g load, twice per second Transmission above 80% Resolution Linearity 5-wire analog resistive

Environment

- - - - Front panel: IP66
 - Operating, random vibration 1 Grms (5 ~ 500 Hz)



ARM[®] Cortex[™]-A8 32-bit, 600 MHz, RISC processor 512MB on board SLC type

- Humidity
- Ingress Protection Vibration Protection

Operating Temperature -20 ~ 60 °C (-4 ~ 140 °F)

WebOP-3100T



Ordering Information

• WOP-3100T-C4BE

BE 10.1" WSVGA, Cortex™-A8, 256MB DDR, WinCE 6.0

Optional 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

S/W Bundle Offering

• WA-HT3100T-R15H0AE WOP-3100T-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.
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Rear View



Isolated power input

Isolated terminal I/O ports



Isolated terminal I/O ports