# Web0P-3120T

## **12" XGA Operator Panel with** ARM<sup>®</sup> Cortex<sup>™</sup>-A8 RISC Processor and **Wide Operating Temperature**



## **Features**

- ARM<sup>®</sup> Cortex<sup>™</sup>-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  $120\Omega$
- 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-3120T operator panel is powered by an ARM<sup>®</sup> 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-3120T 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-3120T 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 61010, FCC Class A Dimensions (W x H x D) 311.8 x 238 x 54.5 mm (12.28 x 9.37 x 2.15 in)

PC + ABS

Panel

- **Cutout Dimensions** 302.5 x 228.5 mm (12.1 x 9.14 in)
- Microsoft® Windows CE 6.0 OS Support
- Power Input

24 V<sub>DC</sub> ±10% 20 W

- **Power Consumption**  Enclosure Housing
- Mounting Weight (Net)
- 2.5 kg (5.51 lb)

#### System Hardware

- CPU
- Backup Memory .
- Memory
- Storage

#### **Communication Interface**

RS-232/RS-422,RS-485 (DB9), 300~115.2 kbps

- RS-422/RS-485 (Terminal 4 pin+Ground), 300~115.2 kbps
- COM3 RS-485 (Terminal 2 pin), 300~115.2 kbps
- CAN

I/Os

Terminal 2 pin Ethernet (RJ45) 10/100BASE-T

- 1 x USB 2.0 (Client)
  - 1 x USB 2.0 (Host)

XGA TFT LCD

1024 x 768

- 1 x micro SD slot
- 1 x Audio line out, 1 x mic in

### **LCD** Display

- Display Type
- **Display Size**
- Max. Resolution
- Max. Colors

- Luminance (cd/m<sup>2</sup>)
- Viewing Angle (H/V)
- **Backlight Life**
- Dimming
- Contrast Ratio

#### Touchscreen

 Lifespan 36 million touches of 8 mm in diameter through silicone rubber, with at least 250 g load, twice per second Light Transmission above 80% Resolution Linearity Type 5-wire analog resistive

- -30 ~ 70 °C (-22 ~ 158 °F) 10% ~ 90% RH @ 40 °C, non-condensing Humidity
- **Ingress Protection**
- Front panel: IP66 Vibration Protection

# **Base View**

Ethernet USB Client

AD\ANTECH **Industrial Operator Panels** 

12"

64K

All product specifications are subject to change without notice

500

500:1

160/140

LED, 50,000 hr

Adjustable by touch panel

## Environment

- Operating Temperature -20 ~ 60 °C (-4 ~ 140 °F)
- Storage Temperature
- - Operating, random vibration 1 Grms (5 ~ 500 Hz)



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

ARM<sup>®</sup> Cortex<sup>™</sup>-A8 32-bit, 600 MHz, RISC processor

- DDR2 256 MB

- Yes

# Power-On LED

# FRAM 1M bit (128 KB, 64 words) 512MB on board SLC type

- COM1
- COM2

# Web0P-3120T



# **Ordering Information**

• WOP-3120T-C4AE

# **Optional Accessories**

- PWR-247-BE
- WOP-3000T-WMKE
  - WOP-3000T Series Wallmount Kits Power Cable US Plug 1.8 M

12" XGA, Cortex™-A8, 256MB DDR, WinCE 6.0

63W DC 24V/2.62A Output Power Supply

- 1702002600 Power Cable US P
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1700000596-11 Power Cable China/Australia Plug 1.8 M

# S/W Bundle Offering

• WA-HT3120T-R15H001 WOP-3120T-C4AE, WebAccess/HMI Runtime 1500 tags, 512MB SD, WinCE6.0

# **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**

USB (Host) Audio mic in/line out

Isolated power input

Isolated terminal I/O ports



Isolated terminal I/O ports