MPC-100E

10.4" Industrial Web Tablet with Windows CE .NET

Features

- Wireless Connectivity
- 10.4" high brightness TFT LCD display with touchscreen
- Withstands a 3-foot drop test
- Spill & Dust Resistance

Applications

- data collection/data acquisition
- Inspection in Manufacturing Automation Industry
- Warehouse management and Inventory tracking
- Transportation & logistic operations
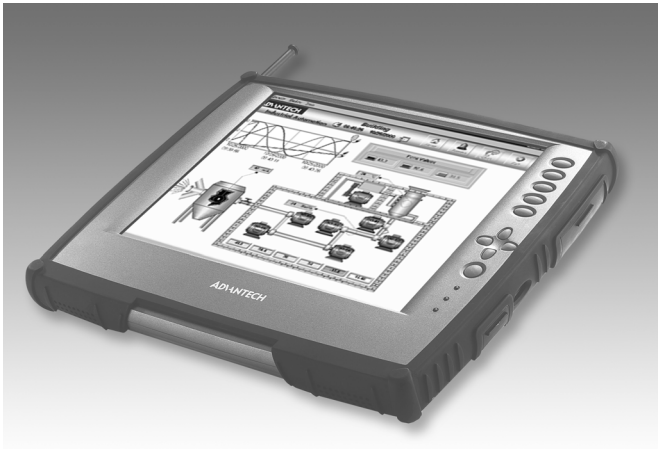
Design Features

Advantech proudly introduces a ruggedized web tablet, the MobiPanel™100E, a portable wireless Windows ® CE-based appliance combining data capture and communication technology. The MobiPanel™100E is designed to provide mobile professionals a real-time wireless solution to access information from remote databases via the Internet or an Intranet. The MobiPanel™100E is ideal for applications in retail, health care, warehousing, home networking, manufacturing process monitoring, hospitality, logistic support and on-site service.

Wireless

Featuring mobility and boundless communication, the latest 802.11b based wireless technology has been built into the MobiPanel™100E. It also maintains flexibility by allowing other WAN/WLAN and PCMCIA card adapters as optional items.

Fully-integrated I/O

To maximize its connectivity with peripherals like barcode scanners, printers, digital cameras, keyboard/mouse, projectors and monitors, the MobiPanel™ 100E is fully equipped with IR, USB, PS/2 VGA interface ports and RS-485/ 422/232 protocol COM ports.

High Brightness Display

The high brightness 10.4" TFT LCD provides good visibility. It is especially ideal for displaying graphical content in web-based applications. This advanced LCD technology enables the MobiPanel™100E to function without sacrificing power consumption. The battery can last for 4-6 working hours on a one-time charge.

Shock & Vibration Resistant

The MobiPanel™100E is ruggedized and constructed for professionals working in harsh environments. It has a magnesium housing and internal shock absorbing design meets the industrial durability. The MobiPanel™ withstands a 3-foot lab-based drop test.

Spill & Dust Resistant

The I/O ports, LCD panel and internal circuits of the MobiPanel™100E have been designed to resist spill damage. Advantech took it further by making it dust-resistant with a protected LCD, sealed ports and card slots for extra protection.

Specifications

- **Processor:** Intel® XScale PXA255 400 MHz and companion chip SA1111
- **Operating System:** Windows®CE .NET
- **Memory:**
  - System: 128 MB SDRAM onboard
  - Storage: 32 MB Flash ROM on removable module
  (64 MB Flash ROM for Japanese language version)
- **Optional Storage:** CompactFlash™card Type II
- **Display:**
  - Panel: 10.4" TFT high brightness LCD
  - Resolution: 800 x 600 SVGA
- **Audio System:** AC-Link Audio
  - 1 x internal buzzer, 2 x internal speakers
- **PCMCIA:** 1 x PCMCIA Type II slot
- **CompactFlash:** 1 x CompactFlash Type II slot (Push-push slot)
- **External Keyboard:** USB or PS/2, IR Keyboard (Optional)
- **Application Buttons:**
  - 5 x customer-defined hot keys for application selection
  - 1 x suspend switch
  - 1 x Software reset switch
  - 1 x Hardware reset switch (under the flash-board door)
- **Pointing Device:**
  - Built-in resistive touch panel
  - 4 direction keys with one enter key
  - 5 programmable function buttons
- **Battery:**
  - Primary battery pack (4-cell) with smart Li-ion battery, 4-6 hour battery life
  - Enhanced battery pack (8-cell) with smart Li-ion battery, 8-10 hour battery life
  *Enhanced battery pack is not an off-the-shelf item. Advantech will supply these with a minimum quantity per lot.

RISC Embedded Solutions

Dimensions

Unit: mm (inches)

295.0

235.0

29.00

CENTER OF LCD
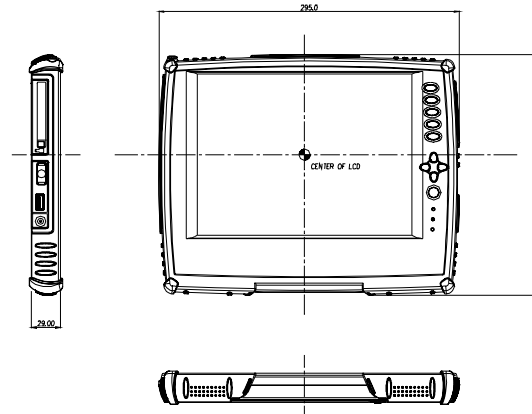
MPC-100E

Specifications cont.

- **Power Adapter:** Universal AC 90 V ~ 265 V, 47~ 63 Hz input, 19 V_{DC}, 3.16 A output, 60 W
- **LED Status Indicator:**
  - Power LED, power on: green; power off: dark
  - Charging LED, charging: orange, blinking when battery low.
  - Docking LED, docking: green
- **I/O Port:**
  - 1 x PCMCIA Type II slot
  - 1 x CompactFlash™ Type II card socket support
  - 1 x USB Type A connector
  - 1 x RS -232/422/485 (selected by jumper setup)
  - 1 x PS/2 for mouse / keyboard
  - 1 x IrDA interface
  - 1 x mini-VGA connector
  - 1 x DC-in jack
  - 1 x Audio jack for external headphone
  - 1 x Audio jack for external Microphone
  - 1 x Cradle connector
- **RF:** 802.11b LAN through PCMCIA card
- **Major Applications:** Browser (support plug-in), thin-client, e-mail, customer-designed AP
- **Application Software:**
  - IE, RDP, Hand writing recognition, On-screen K/B, Media player, Pocket word.
- **Physical:**
  - Dimensions: 295 (W) x 235 (D) x 28 (H) mm
  - Weight: 1.35 kg (with primary battery pack & 10.4" Panel)
- **Cradle Station:** (Optional peripheral)
  - RJ-45 for Ethernet port
  - 2 x PS/2 connector
  - 1 x USB Type B connector for synchronize with PC
  - 1 x DC-in jack
  - 2 x USB host connector

- **Environmental:**
  - Operating Temperature: 0°~ 40° C (32° ~ 104° F)
  - Storage Temperature: -20°~ 60° C (-4° ~ 140° F)
  - Operating Humidity: 20% ~ 90%
  - Water/dust protection on panel side
  - 3 feet free drop impact resistance
  - Vibration/shock: IEC 68-2-27
- **EMI/Safety:** FCC class B, CE, UL/CUL, BSMI, VCCI, CCIB

Ordering Information

❑ **MPC-100E-H0UCE1:**

MobiPanel with 10.4" high brightness TFT LCD, Intel Xscale 400 MHz CPU, 128MB SDRAM and 32MB Flash memory on board, English OS image and European power cord

❑ **MPC-100E-H0ECE1:**

MobiPanel with 10.4" high brightness TFT LCD, Intel Xscale 400 MHz CPU, 128MB SDRAM and 32MB Flash memory on board, English OS image and USA power cord

Wireless Connectivity

802.11b based wireless technology has been built into MobiPanel 100E. Users can use Advantech 802.11b PCMCIA wireless LAN card MLAN-3325 on MPC-100E to get the wireless connectivity. The driver of MLAN-3325 has been included in the image of MobiPanel.

❑ **MLAN-3325A/3325E/3325J:**

802.11b Wireless LAN PCMCIA card (Detachable Antenna) for USA/Europe/Japan