MPC-100E

10.4" Industrial Web Tablet with Windows® CE .NET

Features

- Wireless connectivity
- 10.4" high brightness TFT LCD display with touchscreen
- Rugged design - shock & vibration resistant
- Spill & dust resistant

CE FCC UL LISTED E180881

Introduction

Advantech proudly introduces a rugged web tablet, the MPC-100E, a portable wireless Windows® CE-based appliance combining data capture and communication technology. The MPC-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 MPC-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 MPC-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 MPC-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 MPC-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 MPC-100E is rugged and constructed for professionals working in harsh environments. It has a magnesium housing and the internal shock-absorbing design meets industrial durability requirements.
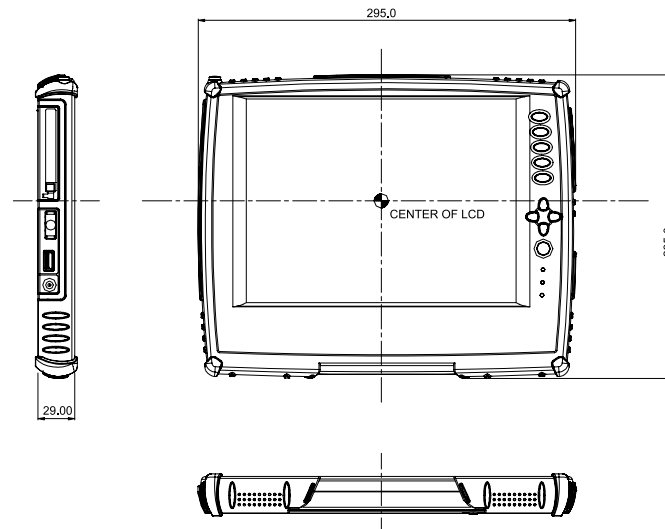
Spill & Dust Resistant

The I/O ports, LCD panel and internal circuits of the MPC-100E have been designed to resist spills and water 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 on board
  - Storage: 32 MB Flash ROM on removable module
- **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 CompctFlash Type II slot (Push-push slot)
- **Application Button** — - 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.
- **Power Adapter** — Universal AC 90 V ~ 265 V, 47~ 63 Hz input, 19 VDC, 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

Dimensions

Unit: mm (inch)

295.0

CENTER OF LCD

235.0

29.00

- **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** — USB host controller supports 2 USB ports
  - 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
- **Environment**
  - Operating Temperature: 0°~ 40° C (32° ~ 104° F)
  - Storage Temperature: -20°~ 60° C (-4° ~ 140° F)
  - Operating Humidity: 30% ~ 90%
  - Water/dust protection on panel side
  - Vibration/shock: IEC 68-2-27
- **EMI/Safety** — FCC class B, CE, UL/CUL, BSMI, VCCI, CCIB

Applications

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

Ordering Information

- **MPC-100E-H0UCE2** — MobiPanel with 10.4" high brightness TFT LCD, Intel Xscale 400 MHz CPU, 128 MB SDRAM and 32 MB Flash memory on board, English OS image and European power cord
- **MPC-100E-H0ECE2** — MobiPanel with 10.4" high brightness TFT LCD, Intel Xscale 400 MHz CPU, 128 MB SDRAM and 32 MB 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