

# TPZ-I300

## Intel® Atom™ D2550 Processor-based Medical Computer with Rich I/O

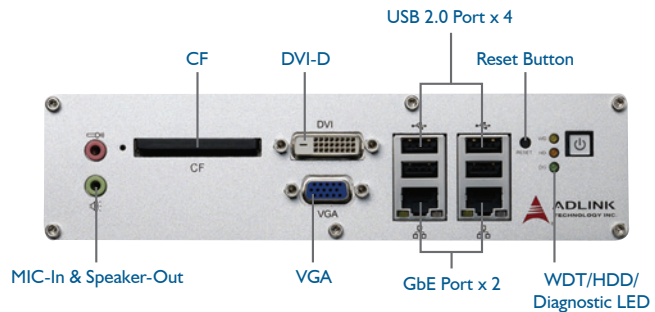


### Introduction

The Topaz TPZ-I300 is the first in ADLINK's new family of medical computers. Based on the Intel® Atom™ D2550 processor, the TPZ-I300 provides excellent computing performance and outstanding power conservation. A fanless and cable-free structure ensures extended durability for long-term usage, providing a noiseless solution satisfying stringent medical application requirements. The TPZ-I300 significantly benefits system integrators with an innovative space-saving compact configuration and rich I/O design for maximum flexibility. An internal PCI Express Mini Card socket and USIM slot team to support a variety of extension functions, such as wireless connection (3G/WiFi/BT), video capture, Secure Access Modules (SAM), and many others. The TPZ-I300 is IEC/EN-60601 certified, and ADLINK is an ISO-13485 approved manufacturer.

### Features

- Energy-efficient platforms featuring Intel® Atom™ D2550 processors + NM10 chipsets
- Fanless, cable-free design with extended MTBF and reliability
- Medical safety IEC/EN-60601 certified
- Compact size for ease of system installation & integration
- Easy-to-clean housing
- Built-in 6 V<sub>DC</sub> to 36 V<sub>DC</sub> wide-range DC inputs
- Rich I/O: 2 RS-232/422/485 + 2 RS-232, 3 GbE ports, 6 USB 2.0, 4 Digital I/O, DVI+VGA.
- Extended function support from mini PCIe slots with USIM.



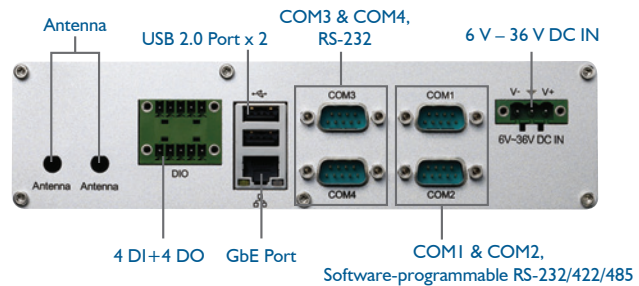
TPZ-1300 Series Front Panel

### Applications

- Nursing Information System
- PACS (Picture Archiving Communication System)
- Medication Automation
- Medical Administration

### Software Support

- Windows® CE7.0 / XP / XP Embedded / Embedded Standard 7 / 7



TPZ-1300 Series Back Panel

## Specifications

<b>Model Name</b>	<b>TPZ-1301</b>
<b>System Core</b>	
■ Processor	Intel® Atom™ D2550 1.86 GHz processor
■ Chipset	Intel® NM10
■ Video	VGA+DVI dual display, supports 1920 x 1200 resolution
■ Memory	2 GB DDR3 1066 MHz SODIMM module (Up to 4 GB support)
<b>I/O Interface</b>	
■ Ethernet	3 GbE ports (3x Intel® 82574L)
■ Serial Ports	4 COM ports (2 software-programmable RS-232/422/485, and 2 RS-232)
■ USB	6 USB 2.0 ports
■ DI/O	4 digital input and output
■ Audio	1 mic-in and 1 line-out
■ Mini PCIe	1 internal mini PCIe card socket
■ USIM	1 USIM socket for 3G communication
■ WDT	Watchdog timer support
<b>Power Supply</b>	
■ DC Input	Built-in 6-36 V <sub>DC</sub> wide-range DC input
■ AC Input	[Option] SINPRO HPU101-108 100W AC-DC Adapter w/ EN 60601-1 3rd edition certificated
<b>Storage Device</b>	
■ SATA Storage	1 onboard SATA-II port for 2.5" HDD/SSD installation
■ CompactFlash	1 external type I CF socket, supports PIO/DMA modes
<b>Mechanical</b>	
■ Dimensions	210 mm (W) x 170 mm (D) x 53 mm (H) / (8.3" x 6.75" x 2.1")
■ Weight	2.1 kg (4.63 lbs)
■ Mounting	VESA 100 hardware kit for wall-mounting
<b>Environmental</b>	
■ Operating Temperature	0°C to 40°C
■ Storage Temperature	-40°C to 85°C (excl. HDD/SSD/CF)
■ Humidity	~95% @ 40°C (non-condensing)
■ Vibration	Operating, 5 Grms, 5-500 Hz, 3 axes (w/ CF or SSD) Operating, 0.5 Grms, 5-500 Hz, 3 axes (w/ HDD)
■ ESD	Contact +/-4 KV and Air +/-8 KV
■ Shock	Operating, 100 G, half sine 11 ms duration (w/ CF or SSD)
■ EMC	CE and FCC Class B
■ Safety	IEC/EN 60601-1 3rd edition

## Ordering Information

Model Name	Description	Support	COM Ports	DI/O	GbE	USB	Memory
TPZ-1301	Intel® Atom™ D2550 fanless medical computer	2.5" HDD/SSD	4	4	3	6	2 GB

## Optional Accessories

4 GB DDR3 Upgrade	Upgrade to 4 GB DDR3 memory (TPZ-1301)
500 GB HDD Option	Factory-installed 500 GB SATA hard disk drive
100W AC-DC Adapter	SINPRO HPU101-108 with EN60601 3rd edition certificated
32 GB/64 GB SSD Option	Factory-installed 32 GB/64 GB SSD

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