![DT Research logo](www.dtresearch.com)

DT514LD / DT514LA
Medical All-in-One Computer

Slim Workstation for Point-of-Care Solutions

Designed for versatility in healthcare and other clean-sensitive applications, the DT514 Series Medical All-in-One System offers a range of processing power and options for diverse applications—from high-performance Intel® processors for demanding workloads to cost-effective configurations ideal for nurse workstations. Featuring a 23.8" full HD touchscreen, this energy-efficient fanless system with anti-microbial enclosure is designed for applications that require the highest level of clean operations. The slim VESA mountable system seamlessly integrates into space-constrained areas. Optional features such as a smart card/CAC reader, RFID reader, and IR camera further enhance workflow, making the DT514 a robust solution for patient data management, telemedicine, and point-of-care applications.

Features

- 23.8" Full HD (1920 x 1080) display
- Microsoft® Windows® 11 IoT Enterprise or IGEL OS
- ANSI/AAMI ES60601-1 certified
- Space-saving all-in-one, slim, fanless design with antimicrobial enclosure
- VESA mounting compatibility for easy installation and optimized mobility
- IP65-rated front panel with IP54-rated enclosure
- Energy Star 8.0 certified

Major Options

- 2 MP IR camera
- Smart card/CAC reader
- RFID reader
- P-CAP touch (DT514LD)
- PoE LAN (DT514LD, DT514LW)
- UPS backup battery

Specifications

Model	DT514LD	DT514LA

System

CPU	Intel® N97, Quad-core (up to 3.6 GHz)	Intel® Core™ Ultra 5 processor 225U, 10-core (up to 4.9 GHz) Intel® Core™ Ultra 7 processor 255U, 12-core (up to 5.2 GHz)
RAM	8GB DDR5 up to 16GB (SO-DIMM, one slot)	8GB DDR5 up to 64GB (SO-DIMM, two slots)
Storage	128GB eMMC	512GB to 4TB
Operating System	IGEL OS	Microsoft® Windows® 11 IoT Enterprise
Display	23.8"	23.8"
Touchscreen	Capacitive touch (optional)	Capacitive touch
Brightness	250 nits	250 nits
Contrast Ratio	1000:1	1000:1
Display Resolution	Full HD (1920 x 1080)	Full HD (1920 x 1080)
Trusted Platform Module	fTPM (optional: dTPM)	fTPM (optional: dTPM)
Buttons	1 x power button, 4 x programmable buttons	1 x power button, 4 x programmable buttons
Speaker	2 x 5W speakers	2 x 5W speakers
Microphone	Built-in microphone array	Built-in microphone array

Network Interface

WLAN	Wi-Fi 802.11be, 2.4/5/6 GHz three band (optional)	Wi-Fi 802.11be, 2.4/5/6 GHz three band
BT	5.4	5.4

I/O Ports

USB Port	3 x USB 3.2 Gen 2 (Type-A), 1 x USB 3.2 Gen 2 latest USB/charging (for display output and charging)	4 x USB 3.2 Gen 2 (Type-A), 1 x USB 3.2 Gen 2 latest USB/charging (for display output and charging)
Ethernet Port	1 x Ethernet 10/100/1000MB Base-T LAN	1 x Ethernet 2.5 GbE LAN
COM	n/a	2
HDMI	1	1
DC-In Jack	1	1

Mechanical and Environmental

Fan/Fanless	Fanless	Fanless
AC/DC Adapter	Input: 100 to 240V AC; Output: 19V DC, 3.78A	Input: 100 to 240V AC; Output: 19V DC, 4.73A
Enclosure	ABS plastic, antimicrobial enclosure	ABS plastic, antimicrobial enclosure
Dimensions (H x W x D)	14.49 x 22.4 x 1.67 in/368 x 569 x 42.5 mm	14.49 x 22.4 x 1.67 in/368 x 569 x 42.5 mm
Weight	11.24 lbs/5.1 kg (w/o touch) 13.88 lbs/6.3 kg (w/ touch)	13.89 lbs/6.3 kg
VESA	100 × 100 mm	100 × 100 mm
Water Resistance	IP65 sealed front bezel and IP54 back cover enclosure	IP65 sealed front bezel and IP54 back cover enclosure
Regulatory	ANSI/AAMI ES60601-1, IEC60601-1, IEC60601-1-2, FCC Part 18, FCC Part 15 Class B, CE-EMC, CE-RED, Energy Star 8.0, EPEAT	
Temperature	Operation: 0°C to 40°C (32°F to 104°F); Storage: -20°C to 60°C (-4°F to 140°F)	Operation: 0°C to 40°C (32°F to 104°F); Storage: -20°C to 60°C (-4°F to 140°F)
Humidity	0% to 90% non-condensing	0% to 90% non-condensing

Major Options

Camera	2 MP IR camera	2 MP IR camera
Smart Card/CAC Reader	Half-slot (ISO 7816 T=0, T=1 and 1.8/3/5V smart card)	Half-slot (ISO 7816 T=0, T=1 and 1.8/3/5V smart card)
RFID Reader	HF 13.56 MHz, ISO 15693, 14443A(B) and 18000-3 mode 1, or dual frequency (125 kHz and 13.56 MHz)	
Touchscreen	Capacitive touch	Default
PoE LAN	Isolated 60W IEEE802.3bt Type 4 PD module	n/a
UPS Backup Battery	2300mAh	2300mAh

*Specifications subject to change without notice.