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# 581T/582T/584T
# Medical-Cart Computer

## All-in-One Computer with Integrated Swappable Batteries for Point-of-Care Applications

Powered by a powerful Intel® Pentium® Gold or Core™ i processor, the 581T/582T/584T All-in-One Medical-Cart Computer features a 19.5"/22"/24" easy-to-read display to provide at-a-glance examination to ensure efficient operation. With the optional hot-swappable batteries, patient data can be managed fluidly without operations being interrupted due to the act of replacing batteries, while the VESA standard mounting design makes installation an effortless task. The built-in Wi-Fi and other optional data-capture modules further improve the point-of-care process. With these extensive features, the 581T/582T/584T is ideal for hospitals and clinics in any point-of-care scenarios.





## Features

- Integrated hot-swappable batteries (optional, up to 3 batteries)
- 19.5", 22" or 24" high-resolution touchscreen
- Intel® Pentium® Gold or Core™ i processor
- Microsoft® Windows® 10/11 IoT Enterprise or Ubuntu OS
- Fanless, space-saving all-in-one design with antimicrobial enclosure
- VESA compatibility to maximize installation flexibility
- Built-in LED reading light
- HDMI video-out, support up to 4K UHD resolution
- ANSI/AAMI ES60601-1 certified, IP65-rated front panel, IPX2-rated enclosure
- Energy Star 8.0 certified (582T)

## Major Options

- Power supply outputs
- 5M front camera
- NFC/RFID reader (582T & 584T only)
- Smart card/CAC reader

# Specifications

| Model | 581T | 582T | 584T |
|---|---|---|---|
| **System** | | | |
| CPU | Intel® Pentium® Gold-G6400T, 2-Core, 3.4 GHz<br>Intel® Core™ i5-10500T, 6-Core, 2.3 GHz (up to 3.30 GHz)<br>Intel® Core™ i7-10700T, 8-Core, 2 GHz (up to 3.40 GHz) | Intel® Pentium® Gold-G6400T, 2-core, 3.4 GHz<br>Intel® Core™ i5-10500T, 2.3 GHz (up to 3.8 GHz)<br>Intel® Core™ i7-10700T, 2.0 GHz (up to 4.5 GHz) | Intel® Pentium® Gold-G6400T, 2-core, 3.4 GHz<br>Intel® Core™ i5-10500T, 2.3 GHz (up to 3.8 GHz)<br>Intel® Core™ i7-10700T, 2.0 GHz (up to 4.5 GHz) |
| RAM | 8GB to 32GB | 8GB to 64GB | 8GB to 64GB |
| Storage | 64GB to 2TB Flash | 256GB to 4TB Flash | 256GB to 4TB Flash |
| Operating System | Microsoft® Windows® 10/11 IoT Enterprise or Ubuntu | | |
| Display | 19.5" Touchscreen | 21.5" Touchscreen | 23.8" Touchscreen |
| Display Resolution | 1920 x 1080 | 1920 x 1080 | 1920 x 1080 |
| Trusted Platform Module | TPM 2.0 | TPM 2.0 | TPM 2.0 |
| Microphone | Built-In Microphones | Built-In Microphone | Built-In Microphones |
| Speaker | Build-In Speaker | Build-In Speaker | Build-In Speaker |
| Reading Light | 1 x LED Reading Light | 1 x LED Reading Light | 1 x LED Reading Light |
| **Network Interface** | | | |
| WLAN | Ethernet 10/100/1000 MB Base-T LAN; Wi-Fi 802.11ax, 2.4/5 GHz Dual Band | | |
| BT | BT 5.2 | BT 5.2 | BT 5.2 |
| **I/O Interface** | | | |
| USB Ports | 4 x USB 3.0, 2 x USB 2.0 | 4 x USB 3.0, 2 x USB 2.0 | 4 x USB 3.0, 2 x USB 2.0 |
| COM Port | 2 | 2 | 2 |
| HDMI Port | 1 | 1 (1.4a) | 1 (1.4a) |
| Headphone Jack | 1 (3.5 mm) | 1 (3.5 mm) | 1 (3.5 mm) |
| Ethernet Port | 1 (RJ45) | 1 (RJ45) | 1 (RJ45) |
| DC-In Jack | 1 | 1 | 1 |
| DC-Out (Optional) | N/A | 1 x 12V, 1 x 15V, 1 x 19V | 1 x 12V, 1 x 15V, 1 x 19V |
| Switches & Buttons | 1 x Power Button, 4 x Functional Buttons, 1 x Reading Light On/Off Button | | |
| **Mechanical and Environmental** | | | |
| Fan/Fanless | Fanless | Fanless | Fanless |
| AC/DC Adapter | Input: 100 – 240V AC; Output: 19V DC, 6.31A | Input: 100 – 240V AC; Output: 19V DC, 6.31A | Input: 100 – 240V AC; Output: 19V DC, 6.31A |
| Battery Pack | (Optional) 2 x Li-Ion Battery (8250mAh, 90Wh) | (Optional) 3 x Li-Ion Battery (8250mAh, 90Wh) | (Optional) 3 x Li-Ion Battery (8250mAh, 90Wh) |
| Enclosure | ABS + PC Plastic with Antimicrobial Coating | | |
| Dimensions (H x W x D) | 11.6 x 18.9 x 1.6 in/295 x 480 x 40.6 mm | 13.6 x 20.4 x 1.6 in/345.9 x 516.9 x 40.4 mm | 14.6 x 22.2 x 1.62 in/370.9 x 564.3 x 41.2 mm |
| Weight | 10.41 lbs/4.72 kg (Without Batteries)<br>12.61 lbs/5.72 kg (With 2 Batteries) | 12.6 lbs/5.7 kg (Without Batteries)<br>15.9 lbs/7.2 kg (With 3 Batteries) | 14.1 lbs/6.4 kg (Without Batteries)<br>17.4 lbs/7.9 kg (With 3 Batteries) |
| VESA Mount | 100 × 100 mm | 100 × 100 mm | 100 × 100 mm |
| Water Resistance | Front Panel: IP65 | Front Panel: IP65; Enclosure: IPX2 | Front Panel: IP65; Enclosure: IPX2 |
| Regulatory and Safety Certifications | ANSI/AAMI ES60601-1, IEC60601-1, IEC60601-1-2, FCC Part 18, FCC Part 15 Class B, GB 17625.1, GB 4943.1, GB/T 9254, CE-EMC, CE-RED, RCM, CCC | ANSI/AAMI ES60601-1, IEC60601-1, IEC60601-1-2, FCC Part 18, FCC Part 15 Class B, GB 17625.1, GB 4943.1, GB/T 9254, CE-EMC, CE-RED, Energy Star 8.0, RCM, CCC | ANSI/AAMI ES60601-1, IEC60601-1, IEC60601-1-2, FCC Part 18, FCC Part 15 Class B, GB 17625.1, GB 4943.1, GB/T 9254, CE-EMC, CE-RED, RCM, CCC |
| Temperature | Operation: 0°C ~ 40°C (32°F ~ 104°F); Storage: -20°C ~ 60°C (-4°F ~ 140°F) | | |
| Humidity | 0% ~ 90% Non-Condensing | | |
| **Major Options** | | | |
| Camera | 5M Front Camera | | |
| NFC/RFID reader | N/A | Dual Frequency (Reads 125 KHz & 13.56 MHz Credentials) | |
| Smart Card/CAC Reader | Full-Slot (Reads ISO 7816 T=0, T=1 & 1.8/3/5V Smart Card) | | |

*Specifications subject to change without notice.

# Accessories

· Desktop Stand　　· Medical Grade Adapter　　· Battery Gang Charger　　· 3-Slot Battery Holster

Supplies powers to the system and peripherals (e.g., Zebra mobile printer and Welch Allyn vital sign monitor).

· Battery

**Product Configurator**

www.dtresearch.com/productconfig

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