

# Medical-Cart Computer

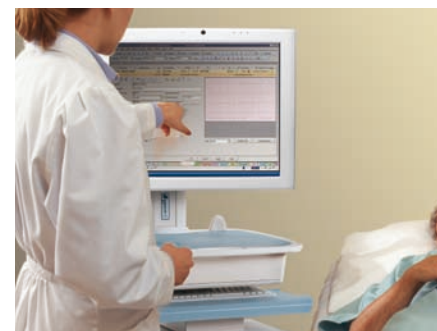
**All-in-one Computer with Integrated Swappable Batteries for Point-of-Care Applications**



The DT590/ DT592/ DT594 series Medical-Cart Computer, featuring the slim and elegant design of the DT Research all-in-one series, is the latest innovation in medical computing systems, integrating swappable batteries to facilitate mobility for healthcare applications. The Medical-Cart Computer integrates a vivid 19", 22" or 24" display, a high performance Intel® Celeron® or 5<sup>th</sup> Generation Core™ i processor, and an internal power supply in a compact, mountable package with anti-microbial coating. With WLAN connectivity and an optional touch screen panel, this Medical-Cart Computer is ideal for health professionals to manage patient information, and also eliminates the need to purchase costly medical cart batteries. The DT590/ DT592/ DT594 series is the new generation of medical cart computers, making data access efficient, optimizing staff workflow, and minimizing the total cost of ownership.

## Features

- Integrated hot-swappable batteries, no power cord or external batteries required
- Intel® Celeron® or 5<sup>th</sup> Generation Core™ i processor; high performance operation with low power consumption
- 19", 22" or 24" TFT-LCD, capacitive touch option
- Slim, all-in-one design with anti-microbial enclosure
- Dual HDMI video outputs; up to 4K UHD resolution
- Built-in Bluetooth and 802.11ac WLAN
- Optional front camera, RFID reader and smart card reader
- Fanless cooling option
- VESA-mountable for flexibility in mounting and placement



## Applications

- Clinic or Hospital
- Healthcare Center
- Retirement Community
- Laboratory

## Specifications



| Model                                | DT590BC                                                                                                                                                                                                                                                          | DT590BU                  | DT592BC                                                                               | DT592BU                  | DT594BC                                                                               | DT594BU                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------|--------------------------|
| System                               |                                                                                                                                                                                                                                                                  |                          |                                                                                       |                          |                                                                                       |                          |
| CPU                                  | Intel® Celeron®, 1.5GHz                                                                                                                                                                                                                                          | Intel® Core™ i3 or i7    | Intel® Celeron®, 1.5GHz                                                               | Intel® Core™ i3 or i7    | Intel® Celeron®, 1.5GHz                                                               | Intel® Core™ i3 or i7    |
| RAM                                  | 4GB to 16GB                                                                                                                                                                                                                                                      |                          | 4GB to 16GB                                                                           |                          | 4GB to 16GB                                                                           |                          |
| Storage                              | 64GB to 512GB Flash                                                                                                                                                                                                                                              | 128GB to 512GB Flash     | 64GB to 512GB Flash                                                                   | 128GB to 512GB Flash     | 64GB to 512GB Flash                                                                   | 128GB to 512GB Flash     |
| Operating System                     | Microsoft® Windows® Embedded Standard 7, 7 Professional or Windows® 10 IoT Enterprise                                                                                                                                                                            |                          | Microsoft® Windows® Embedded Standard 7, 7 Professional or Windows® 10 IoT Enterprise |                          | Microsoft® Windows® Embedded Standard 7, 7 Professional or Windows® 10 IoT Enterprise |                          |
| Display                              | 19" TFT-LCD                                                                                                                                                                                                                                                      | 19" TFT-LCD              | 21.5" TFT-LCD                                                                         | 21.5" TFT-LCD            | 23.6" TFT-LCD                                                                         | 23.6" TFT-LCD            |
| Display Resolution                   | 1280 x 1024                                                                                                                                                                                                                                                      | 1280 x 1024              | 1920 x 1080                                                                           | 1920 x 1080              | 1920 x 1080                                                                           | 1920 x 1080              |
| Touch Screen                         | Optional capacitive touch                                                                                                                                                                                                                                        |                          | Optional capacitive touch                                                             |                          | Optional capacitive touch                                                             |                          |
| Network Interface                    | Ethernet 10/ 100/ 1000 MB Base-T LAN; Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band                                                                                                                                                                                     |                          |                                                                                       |                          |                                                                                       |                          |
| Bluetooth                            | Bluetooth 4.0 LE                                                                                                                                                                                                                                                 | Bluetooth 4.0 LE         | Bluetooth 4.0 LE                                                                      | Bluetooth 4.0 LE         | Bluetooth 4.0 LE                                                                      | Bluetooth 4.0 LE         |
| Trusted Platform Module              | TPM1.2 or 2.0                                                                                                                                                                                                                                                    | TPM1.2 or 2.0            | TPM1.2 or 2.0                                                                         | TPM1.2 or 2.0            | TPM1.2 or 2.0                                                                         | TPM1.2 or 2.0            |
| Control Button                       | 5 side buttons: 1 power and 4 functional buttons                                                                                                                                                                                                                 |                          | 5 side buttons: 1 power and 4 functional buttons                                      |                          | 5 side buttons: 1 power and 4 functional buttons                                      |                          |
| Speaker                              | Built-in speaker                                                                                                                                                                                                                                                 | Built-in speaker         | Built-in speaker                                                                      | Built-in speaker         | Built-in speaker                                                                      | Built-in speaker         |
| I/O Ports                            |                                                                                                                                                                                                                                                                  |                          |                                                                                       |                          |                                                                                       |                          |
| USB Port                             | USB 2.0 x 2, USB 3.0 x 4                                                                                                                                                                                                                                         | USB 2.0 x 2, USB 3.0 x 4 | USB 2.0 x 2, USB 3.0 x 4                                                              | USB 2.0 x 2, USB 3.0 x 4 | USB 2.0 x 2, USB 3.0 x 4                                                              | USB 2.0 x 2, USB 3.0 x 4 |
| COM Port                             | 1                                                                                                                                                                                                                                                                | 1                        | 4                                                                                     | 4                        | 4                                                                                     | 4                        |
| HDMI-out (1.4a)                      | 2                                                                                                                                                                                                                                                                | 2                        | 2                                                                                     | 2                        | 2                                                                                     | 2                        |
| Audio-out                            | 1                                                                                                                                                                                                                                                                | 1                        | 1                                                                                     | 1                        | 1                                                                                     | 1                        |
| Microphone-in                        | 1                                                                                                                                                                                                                                                                | 1                        | 1                                                                                     | 1                        | 1                                                                                     | 1                        |
| Ethernet                             | RJ45 connector for Ethernet x 1                                                                                                                                                                                                                                  |                          | RJ45 connector for Ethernet x 1                                                       |                          | RJ45 connector for Ethernet x 1                                                       |                          |
| DC-in                                | 1                                                                                                                                                                                                                                                                | 1                        | 1                                                                                     | 1                        | 1                                                                                     | 1                        |
| Mechanical and Environmental         |                                                                                                                                                                                                                                                                  |                          |                                                                                       |                          |                                                                                       |                          |
| Battery Pack                         | DR202 Li-ion battery; 11.1V, 7800mAh x 3 (optional)                                                                                                                                                                                                              |                          | DR202 Li-ion battery; 11.1V, 7800mAh x 3 (optional)                                   |                          | DR202 Li-ion battery; 11.1V, 7800mAh x 3 (optional)                                   |                          |
| 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                                           |                          |
| Enclosure                            | ABS + PC plastics, anti-microbial enclosure                                                                                                                                                                                                                      |                          | ABS + PC plastics, anti-microbial enclosure                                           |                          | ABS + PC plastics, anti-microbial enclosure                                           |                          |
| Dimensions (H x W x D)               | 14.9 x 17.7 x 2.2 in/ 380 x 450 x 65 mm                                                                                                                                                                                                                          |                          | 12.5 x 20.8 x 2.3 in/ 318 x 529 x 58 mm                                               |                          | 14.2 x 22.9 x 2.3 in/ 361 x 582 x 57 mm                                               |                          |
| Weight                               | Without battery: 11.5lbs/ 5.2kg<br>With 3 batteries: 14.8lbs/ 6.7kg                                                                                                                                                                                              |                          | Without battery: 11lbs/ 5kg<br>With 3 batteries: 14.3lbs/ 6.5kg                       |                          | Without battery: 15.4lbs/ 7kg<br>With 3 batteries: 18.7lbs/ 8.5kg                     |                          |
| VESA-compliant Mounting              | 100mm × 100mm VESA standard                                                                                                                                                                                                                                      |                          | 100mm × 100mm VESA standard                                                           |                          | 100mm × 100mm VESA standard                                                           |                          |
| Regulatory and Safety Certifications | EMC/EMI: FCC CFR Title 47 Part 18, EN 55011, EN 60601-1-2, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 11<br>RF: FCC Part 15C, FCC Part 15E, EN 300328, EN 301893, EN 301489-1, EN 301489-7, EN 62311, AS/NZS 4268<br>Safety: UL (ANSI/AAMI ES60601-1), IEC 60601-1 |                          |                                                                                       |                          |                                                                                       |                          |
| Temperature                          | Operation: 0°C – 40°C; Storage: -20°C – 60°C                                                                                                                                                                                                                     |                          | Operation: 0°C – 40°C; Storage: -20°C – 60°C                                          |                          | Operation: 0°C – 40°C; Storage: -20°C – 60°C                                          |                          |
| Humidity                             | 0% – 90% non-condensing                                                                                                                                                                                                                                          |                          | 0% – 90% non-condensing                                                               |                          | 0% – 90% non-condensing                                                               |                          |
| Major Options                        |                                                                                                                                                                                                                                                                  |                          |                                                                                       |                          |                                                                                       |                          |
| Front Camera                         | 2 megapixel camera with auto focus                                                                                                                                                                                                                               |                          | N/A                                                                                   | N/A                      | N/A                                                                                   | N/A                      |
| RFID reader                          | RFID reader; complies with HF 13.56MHz, ISO standard 15693, 14443A(B) & 18000-3 mode-1                                                                                                                                                                           |                          |                                                                                       |                          |                                                                                       |                          |
| Smart Card Reader                    | Reads ISO 7816 T=0, T=1 smart card, 1.8/ 3/ 5V smart card                                                                                                                                                                                                        |                          |                                                                                       |                          |                                                                                       |                          |
| Cooling System                       | Fanless cooling solution                                                                                                                                                                                                                                         |                          |                                                                                       |                          |                                                                                       |                          |

\* Specifications subject to change without notice.

