DT Research 581T Powerful Battery Powered Computer User Guide

Contents

DT Research 581T Powerful Battery Powered Computer

Product Information

- **Product Name:** Battery Powered Computer 581T
- **Features:**
  - Comprehensive set of I/O ports
  - 20″ 1920 x 1080 Touchscreen
  - Integrated hot-swappable batteries (optional, up to 2 batteries)
  - Space-saving all-in-one design with antimicrobial enclosure
  - VESA compatibility to maximize installation flexibility
  - Built-in front camera
  - Built-in smart card reader & RFID reader

Product Usage Instructions

Powering ON and OFF:
To power on the Battery Powered Computer for the first time, make sure to fully charge the optional battery packs using the provided AC-DC adapter. Connect the adapter to the Battery Powered Computer and a power source. Once the battery packs are charged, press the power button to turn on the computer. To power off the computer, press and hold the power button until the device shuts down.

Power/Battery LED Status:
The Battery Powered Computer features LED indicators to display the power and battery status. The LED colors and their meanings are as follows:

- **Solid Green:** The computer is powered on and the battery is fully charged.
- **Blinking Green:** The computer is powered on and the battery is charging.
- **Solid Amber:** The battery is low and needs to be charged.
- **Blinking Amber:** The battery is critically low and needs to be charged immediately.

Wireless Networking:
The Battery Powered Computer supports wireless LAN and Bluetooth connectivity. To configure and connect to a wireless network, follow these steps:

1. Go to the System Tray or Control Panel and open the Bluetooth configuration application.

2. Follow the instructions provided within the application to configure and enable Bluetooth connectivity.
3. Ensure that the peripheral devices you want to connect to are compatible with the Microsoft Windows Bluetooth protocol.
4. For wireless LAN, simply connect to an available wireless network using the built-in wireless adapter.

Disposal of Batteries:
When disposing of batteries, do not throw them into fire or a hot oven, or mechanically crush or cut them, as this can result in an explosion or leakage of flammable liquid or gas. Instead, follow proper disposal guidelines provided by your local authorities.

RF Exposure Information (RED & UKCA):
To ensure protection against adverse effects, maintain a separation distance of at least 20cm between the radio antenna (with a maximum gain of 2.8dBi) and all persons. The Battery Powered Computer 581T is compliant with Directive 2014/53/EU and UK Radio Equipment Regulations 2017. For more information, refer to the EU and UK declaration of conformity available at **http://www.dtresearch.com**.

Wireless Access Systems:
The use of Wireless Access Systems within the band 5150-5350 MHz for this device is restricted to indoor use only within all European Union countries. The maximum EIRP for EU countries is subject to regulations.

INTRODUCTION

The 581T is a powerful all-in-one Battery Powered Computer, integrating a high-performance Intel® Pentium® or Core™ i platform and two batteries into a slim, space-saving antimicrobial enclosure with a 19.5” or 20” touchscreen, allowing health professionals to easily monitor patient status, record data and retrieve patient information in a timely fashion. The built-in Wi-Fi connectivity makes data access an easy task, while the VESA standard mounting design makes installation a breeze.

PACKAGE CONTENTS

- One 581T
- Two Li-ion batteries (optional)
- AC-DC power adapter with power cord
- Basic operation guide

Features

The Battery Powered Computer has a comprehensive set of I/O ports. The following ports are located along the lower rear edge of the unit.

- 20″ 1920 x 1080 Touchscreen
- Intel® Core™ i or Pentium® processor
- Microsoft® Windows® 10/11 IoT Enterprise operating system
- Integrated hot-swappable batteries (optional, up to 2 batteries)
- Space-saving all-in-one design with antimicrobial enclosure
- VESA compatibility to maximize installation flexibility
- Built-in front camera
- Built-in smart card reader & RFID reader

PRECAUTIONS

- Always exercise care when operating and handling the Battery Powered Computer.
- Never disassemble any portion of the enclosure, as this will void any product warranty on the Battery Powered Computer.
- Do not use any AC/DC adapter other than the one provided with the device or a replacement acquired from the manufacturer.
- In the unlikely event that smoke, abnormal noise or strange odor is present, immediately power down the Battery Powered Computer and disconnect all power sources. Please report the problem to your device provider immediately.

BASIC FEATURES

The Battery Powered Computer integrates a bright 20” display with a high performance system, USB ports, and integrated options such as capacitive touch, hot-swappable batteries, and smart card reader for a comprehensive point-of-healthcare solution.

Powering ON and OFF
If your Battery Powered Computer comes with the battery packs, please open the battery slot caps and then put in the battery packs one by one. If not, please use the AC-DC adapter with the Battery Powered Computer for the power supply. To activate the Battery Powered Computer, push and quickly release the Power Button and the display will come on in a few seconds. To put in Standby mode, push and quickly release the Power Button. To turn off for extended storage, power off the device safely using any software function that “shuts down computer” provided in the software operating system.

when the EUT is powered by batteries only, the user must use two batteries (model No.: ACC- 006-591) at the

same time.

NOTE:
The battery packs (optional) shipped with your device may be low in power—please use the AC-DC adapter with the Battery Powered Computer when setting up the device for the first time to fully charge the battery packs. You may charge the battery packs with them attached to the Battery Powered Computer, or with the optional battery charger kit.

NOTE:
Avoid using the Power Button (“hold 4+ seconds” feature) to turn off the device- this form of hardware shutdown is intended to be a means of recovery from device lockups, and not as normal operation.

NOTE:
If connecting an external monitor to the Battery Powered Computer (via HDMI port), you must power the Battery Powered Computer with the provided AC-DC power adapter.

Power/Battery LED Status

- Blue indicates the battery is 25% to 100% charged
- Blinking blue indicates the battery is charging
- Orange indicates that the battery is between 11% to 25%
- Blinking Orange indicates that the battery is below 10%

Wireless Networking

Wireless LAN
The Battery Powered Computer is often delivered with an embedded (user-inaccessible) 802.11ax WLAN adapter equipped with a hidden custom antenna.

- Through the support of typical WLAN adapters, the Battery Powered Computer should be able to detect all 802.11 access points in the vicinity for you to select the access point of your choice for connection.
- The SSID and WEP/WPA/WPA2 (if enabled) parameters on the Battery Powered Computer and the access points have to match. The SSID is case-sensitive and it is recommended that you enable WEP/WPA/WPA2 encryption (or advanced alternatives) for secure access.
- When WEP/WPA/WPA2 is enabled, you may need to consult your network administrator or your networking equipment literature to properly configure associated settings such as Authentication mode, etc.
- Refer to the access point operating manuals for setting up the 802.11 access points.

Bluetooth
The Battery Powered Computer features a built-in Bluetooth adapter that operates on the Microsoft Windows Bluetooth protocol. The Bluetooth configuration application is invoked from the System Tray or from the Control Panel. Follow the instructions and options provided within the applica- tion to configure and invoke Bluetooth connectivity with the corresponding peripherals.

NOTE:
Bluetooth devices or accessories that are not compatible with the Microsoft Windows Bluetooth protocol may not work with the Battery Powered Computer.

- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.

- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

RF Exposure Information (RED & UKCA)
To be protected against all verified adverse effects, the separation distance of at least 20cm must be maintained between the antenna of the radio having max. 2.8dBi antenna and all persons.

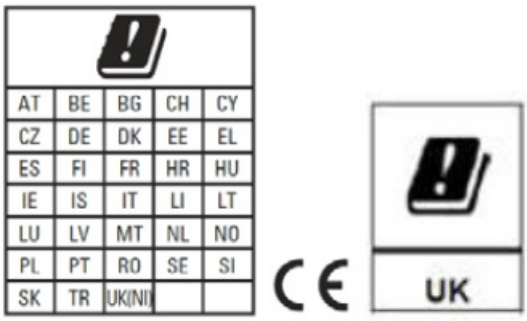
Hereby, [DT Research, Inc.] declares that the radio equipment type [581T] is in compliance with Directive 2014/53/EU and UK Radio Equipment Regulations 2017. The full text of the EU and UK declaration of conformity is available at the following internet address: **http://www.dtresearch.com**.

The functions of Wireless Access Systems including Radio Local Area Networks(WAS/RLANs) within the band 5150-5350 MHz for this device are restricted to indoor use only within all European Union countries (BE/BG/CZ/DK/DE/EE/IE/EL/ES/FR/HR/ IT/CY/LV/LT/LU/HU/MT/NL/AT/PL/PT/RO/SI/SK/FI/SE/TR/NO/CH/IS/LI/UK(NI).

Maximum EIRP for EU

Bluetooth:2402MHz-2480MHz	11.8dBm
Bluetooth LE:2402MHz-2480MHz	7.74dBm
Wifi: 2412MHz-2472MHz/2422MHz-2462MHz	18.59dBm
Wifi: 5150MHz-5725MHz	18.33dBm
Wifi: 5725MHz-5875MHz	12.97dBm

Operating authorizations must exist to operate the product in the following member states of the European Union, refer to the table below.



- **Importer Name:** Concept International GmbH
- **Importer Address:** Zweibrückenstr. 5-7 80331 München Germany.

Federal Communication Commission Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does

cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

RF Exposure Compliance
To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 25cm the radiator your body: Use only the supplied antenna.

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

- **Unique Identifier Trade Name:**
- **Model No.:** 581T
- **Responsible Party** – U.S. Contact Information

DT Research, Inc.
2000 Concourse Drive, San Jose, CA 95131 **http://www.dtresearch.com**.

IC Compliance Statement
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

RF Exposure Compliance
To maintain compliance with RSS's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 25cm the radiator your body: Use only the supplied antenna.

The functions of Wireless Access Systems including Radio Local Area Networks(WAS/RLANs) within the band 5150-5250 MHz for this device are restricted to indoor use only.

DT Research, Inc.
2000 Concourse Drive, San Jose, CA 95131

www.dtresearch.com.

Documents / Resources

	DT Research 581T Powerful Battery Powered Computer [pdf] User Guide 600-AX210NG, YE3600-AX210NG, YE3600AX210NG, 581T, 581T Powerful Battery Powered Computer, Powerful Battery Powered Computer, Battery Powered Computer, Computer

References

- DT Research | Rugged Tablets, Medical-Cart Computers and AIO Computers
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