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# DT301Y
# Rugged Tablet

## Slim, Rugged, Multi-functional Wireless Computing

The DT301Y Rugged Tablet from DT Research features the integration of high brightness 10.1" capacitive touch screen and high performance, energy-efficient Intel® Core™ i processors within a slim, lightweight, durable package. With built-in smart card/CAC reader, Wi-Fi and Bluetooth as well as optional data capture modules, this robust tablet offers seamless information capture and transmission for improved workflow. Rated IP65, MIL-STD-810G/461F and HERO certified with wide temperature range, the DT301Y 2 in 1 Rugged Tablet provides reliable operation in harsh, mission-critical environments.

## Features

- 10.1" inch high-brightness capacitive screen, digital pen support
- Intel® 8th or 10th Generation Core™ i5/i7 processor
- Microsoft® Windows® 10 IoT Enterprise operating system
- NIST compliant BIOS available
- IP65-rated for water and dust resistance
- MIL-STD-810G for shock and vibration protection
- MIL-STD-461F for EMI and EMC tolerance
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified
- Built-in smart card/CAC reader
- Detachable keyboard option for 2-in-1 applications

## Major Options

- Front and back cameras
- Intel® RealSense™ Depth camera
- Barcode scanner
- UHF RFID reader
- Long range Bluetooth
- U-blox M8 GNSS module
- 4G LTE/AWS

# Specifications

| Model | DT301Y |
|---|---|

## System

| | |
|---|---|
| CPU | Intel® Core™ i5-8250U, Quad-Core, 1.6GHz (up to 3.4GHz)<br>Intel® Core™ i7-8550U, Quad-Core, 1.8GHz (up to 4.0GHz)<br>Intel® Core™ i7-10710U, Hexa-Core, 1.1GHz (up to 4.7GHz) |
| RAM | 8GB to 32GB |
| Storage | 256GB to 2TB Flash |
| Operating System | Microsoft® Windows® 10 IoT Enterprise |
| NIST Compliance | NIST compliant BIOS available |
| Display | 10.1" LED-backlight, high-brightness (1000 nits)<br>screen with capacitive touch, outdoor viewable |
| Display Resolution | 1920 x 1200 |
| Control Switch and Buttons | 1 power button, 2 brightness control buttons, 5 programmable buttons |
| Speaker | Built-in speaker |

## Network Interface

| | |
|---|---|
| WLAN | Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band |
| Bluetooth | Bluetooth 4.2 LE |

## I/O Ports

| | |
|---|---|
| USB | USB 3.0 x 1,<br>USB Type C x 1 (data transmitting and charging) |
| Headset Jack | 1 (3.5mm) |
| Ethernet Port | 1 |
| Smart Card/ CAC Reader | Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card |

## Mechanical and Environmental

| | |
|---|---|
| AC/DC Adapter | Input: 100-240V AC; Output: 20V DC, 3.25A |
| Battery Pack | Hot swappable battery, 11.4V, 5400mAh;<br>Hot swappable battery, 11.4V, 8000mAh (optional) |
| Enclosure | ABS + PC plastics and magnesium-aluminum alloy |
| Dimensions (H x W x D) | 7.8 x 11 x 0.86 in/ 198 x 280 x 21.9 mm |
| Weight | 2.86 lbs/ 1.3 kg |
| Durability | IP65, MIL-STD-810G and MIL-STD-461F certified |
| Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing | |
| Regulatory | FCC Class B, CE, RoHS compliant |
| Temperature | Operation: -10°C to 60°C (-14°F to 140°F), optional -30°C to 60°C (-22°F to 140°F)<br>Storage: -55°C to 70°C (-67°F to 158°F) |
| Humidity | 0% – 90% non-condensing |

## Major Options Available

| | |
|---|---|
| Barcode Scanner | 2D scanner, reads 1D also |
| Cameras | 2 megapixel front camera, and 8 megapixel back camera; or, Intel® RealSense™ Depth back camera,<br>supports distance capture for 3D scanning, environment sensing, and background segmentation applications |
| UHF RFID Reader | 865MHz – 928MHz, EPCglobal Class 1 Gen 2/ ISO<br>18000-6C;    16 feet (4.87m) read distance |
| Long Range Bluetooth | Class 1 Bluetooth (1000 ft) |
| GNSS Module | U-blox M8 GNSS module with concurrent reception of GPS and GLONASS; industry leading -167dBm navigation sensitivity |
| Mobile Broadband | 4G LTE/AWS |
| Antenna | N/A |

* Specifications subject to change without notice.

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**Product Configurator**

www.dtresearch.com/productconfig