The DT301T/RTK Rugged Tablet features the integration of a 10.1" capacitive touch screen, an energy efficient Intel® Core™ i processor, and the positioning receiver within a compact, lightweight yet durable package. With Windows® operating system and network connection and other options, this tablet is compatible with existing GIS software for mapping applications and brings together the advanced workflow for GIS data capture, accurate positioning, and data transmitting. With the RTK GNSS receiver connected to an external antenna, this powerful tablet enables highest precision positioning. Rated IP65 and MIL-STD-810G, the DT301T/RTK Rugged Tablet provides real-time survey grade control points for field applications.

Features
- 10.1" LED-backlight, sunlight-readable screen with capacitive touch
- Intel® 6th Generation Core™ i processor; high performance with low power consumption
- Microsoft® Windows® 7 Professional or Windows®10 IoT Enterprise operating system
- Built-in survey-grade RTK GNSS module with foldable antenna; supports high-accurate measuring field work. Measure with the RTK GNSS positioning directly, or connect to an external antenna for higher precision
- High-capacity hot swappable battery for all-day operation
- Built-in smart card/CAC reader and back camera
- IP65-rated for water and dust resistance
- MIL-STD-810G for shock and vibration protection
- MIL-STD-461F for EMI and EMC tolerance
- Optional C1D2 compliant for explosive environments
- Optional long-range Bluetooth, ideal for connecting to Total Station controller
- Optional front camera, 4G LTE

Applications
- Forensic Mapping/Scene Investigation
- Mapping and GIS
- Surveying and Mining
- Natural Resources
- Utilities and Government
- Engineering and Construction
- Transportation
- Agriculture
- Water Management
Specifications

System

CPU
Intel® 6th Generation Core™ i5 or i7 processor
RAM
8GB to 16GB
Storage
128GB to 1TB Flash
Operating System
Microsoft® Windows® 7 Professional or Windows® 10 IoT Enterprise
Display
10.1” high brightness, LED-backlight screen with capacitive multi-touch
Display Resolution
1920 x 1200
NIST Compliant
Yes
Fan/ Fanless
Fanless
Control Switch and Buttons
1 power button, 3 programmable buttons
Indicator
1 power/ battery status LED
Microphone
Built-in microphone with DSP for real-time video
Speaker
Built-in speaker
Camera
5 megapixel back camera with auto focus, white balance, gain control and exposure control

Network Interface

WLAN
Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band
Bluetooth
Bluetooth 4.0 LE

I/O Ports

USB Port
1 (USB 3.0)
Headset Jack
1
DC-in
1
Smart Card 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: 19V DC, 3.42A
Battery Pack
Hot swappable battery, 11.4V, 5400mAh
Hot swappable battery, 11.4V, 8000mAh (optional)
Enclosure
ABS + PC plastics and magnesium-aluminum alloy
Protective Bumpers
Rubber bumpers on each corner for handling protection
Dimensions (H x W x D)
7.8 x 11 x 1.6 in/ 198 x 280 x 41 mm
Weight
3.1 lbs/ 1.4 kg
Vibration and Shock Resistance
MIL-STD-810G
EMI and EMC Tolerance
MIL-STD-461F
Anti Explosion
Class 1 Division 2 (C1D2, optional)
Water and Dust Resistance
IP65
Regulatory
FCC Class B, CE, RoHS compliant
Temperature
Operation: -20°C to 60°C (-4°F to 140°F); tested under MIL-STD-810G method 501.6, Procedure II, and method 502.6, Procedure II
Storage: -55°C to 70°C (-67°F to 158°F)
Humidity
0% ~ 90% non-condensing

Major Options

Long Range Bluetooth
Class 1 Bluetooth (1000 ft.)
Front Camera
5 megapixel front camera
Mobile Broadband
4G module for LTE, HSPA+, GSM/GPRS/EDGE, EV-DO, Rev A and 1xRTT

GNSS Module

Dual Frequency GNSS Module

Receiver Type
GNSS L1 & L2 RTK with carrier phase
Signals Received
GPS, GLONASS and GALILEO
Channels
270
GPS Sensitivity
-142 dBm
SBAS Tracking
3-channel, parallel tracking
Update Rate
1 Hz standard, 10 Hz optional
Accuracy
(Vertical): RMS (67%) 2m (95%)
(Vertical): RMS (67%) 20m + 2 ppm
SBAS (WAAS): 0.3 m 0.6 m
Autonomous, no SA: 1.2 m 2.5 m

Accessories

The DT301T tablet has customized accessories to meet numerous deployment needs.

- Digital Pen
- Detachable Keyboard
- Pole Mount Cradle
- External Antenna and Cable
- Battery Charging Kits
- Carrying Case
- High Capacity Battery Pack

* Specifications subject to change without notice.