

# DT301X-TR Rugged GNSS Tablet

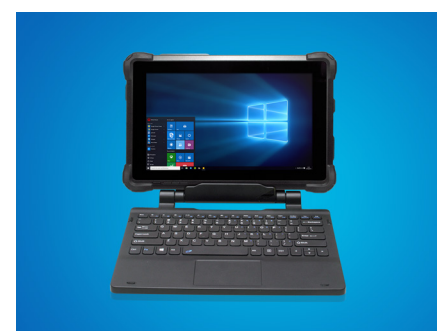
## Slim, Lightweight with Integrated High-Accuracy GNSS



The DT Research DT301X-TR Rugged GNSS Tablet features the integration of a large 10.1" capacitive touch screen, an powerful Intel® Core™ i processor, and the positioning receiver within a compact, lightweight yet durable package. With Windows® operating system and network connection, 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 the highest precision positioning. Rated IP65, MIL-STD-810G and MIL-STD-461F, the DT Research DT301X-TR Rugged GNSS Tablet provides real-time survey grade control points for field applications.

### Features


- Intel® 8<sup>th</sup> Generation Core™ i5/i7 processor
- Microsoft® Windows® operating system
- 10.1" sunlight readable capacitive touch screen (800 nits), digital pen support
- High capacity, hot-swappable battery pack
- Built-in survey-grade RTK GNSS Module with optional foldable antenna
- Built-in 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 Intel® RealSense™ Depth camera, 2D barcode scanner
- Optional long range Bluetooth, GNSS, 4G LTE



### Applications

- Agriculture
- Mapping/ GIS
- Surveying/ Mining
- Natural Resources
- Utilities/ Government
- Engineering/ Construction
- Transportation
- Logistics
- Water Management

## Specifications

	
<b>Model</b>	<b>DT301X-TR</b>
<b>System</b>	
<b>CPU</b>	Intel® Core™ i5-8250U, Quad-Core, 1.6GHz (up to 3.4GHz) Intel® Core™ i7-8550U, Quad-Core, 1.8GHz (up to 4.0GHz)
<b>RAM</b>	8GB to 16GB
<b>Storage</b>	128GB to 1TB Flash
<b>Operating System</b>	Microsoft® Windows® 10 IoT Enterprise
<b>Display</b>	10.1" high-brightness (800 nits) screen with capacitive touch, outdoor viewable
<b>Display Resolution</b>	1920 x 1200
<b>Buttons</b>	1 power button and 3 programmable buttons
<b>Speaker</b>	Built-in speaker
<b>Camera</b>	8 megapixel back camera with auto focus, white balance, gain control, and exposure control
<b>Network Interface</b>	
<b>WLAN</b>	Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band
<b>Bluetooth</b>	Bluetooth 4.0 LE
<b>I/O Ports</b>	
<b>USB Ports</b>	USB 3.0 x 1 and USB Type-C x 1
<b>Headset Jack</b>	1 (3.5mm)
<b>DC-in</b>	1
<b>Ethernet</b>	Ethernet 10/ 100/ 1000MB Base-T LAN
<b>Mechanical and Environmental</b>	
<b>AC/DC Adapter</b>	<b>Input:</b> 100 – 240V AC; <b>Output:</b> 19V DC, 3.42A
<b>Battery Pack</b>	Hot swappable battery, 11.4V, 5400mAh; Hot swappable battery, 11.4V, 8000mAh (optional)
<b>Enclosure</b>	ABS + PC plastics and magnesium-aluminum alloy
<b>Dimensions (H x W x D)</b>	7.8 x 11 x 0.86 in/ 198 x 280 x 21.9 mm
<b>Weight</b>	3.1 lbs/ 1.4 kg
<b>Regulatory</b>	FCC Class B, CE, RoHS compliant
<b>Temperature</b>	<b>Operation*:</b> -20°C – 60°C (AC mode), -20°C – 45°C (battery mode); <b>Storage:</b> -55°C – 70°C
<b>Humidity</b>	0% – 90% non-condensing
<b>Major Options</b>	
<b>Barcode Scanner</b>	2D scanner, reads 1D also
<b>Camera</b>	Intel® RealSense™ Depth back camera, supports distance capture for the 3D scanning, environment sensing and background segmentation applications
<b>Long Range Bluetooth</b>	Class 1 Bluetooth (1000 ft)
<b>Mobile Broadband</b>	4G LTE/AWS

\* Specifications subject to change without notice.

## GNSS Module

### Multi Frequency GNSS Module

<b>Receiver Type</b>	GNSS multi-frequency RTK with carrier phase		
<b>Signals Received</b>	GPS, GLONASS, BeiDou, Galileo, QZSS		
<b>Channels</b>	372		
<b>GPS Sensitivity</b>	-142 dBm		
<b>SBAS Tracking</b>	3-channel, parallel tracking		
<b>Update Rate</b>	1 Hz standard, 10 Hz and 20 Hz available optional		
<b>Accuracy</b>	<b>RMS (67%)</b>	<b>Horizontal</b>	<b>Vertical</b>
	RTK	8 mm + 1 ppm	15 mm + 2 ppm
	SBAS (WAAS)	0.3 m	0.6 m
	Autonomous, no SA	1.2 m	2.4 m

## Accessories

The DT301X-TR Rugged GNSS Tablets have customized accessories to meet numerous deployment needs.

### • External Antennas and Cable



### • Battery Charging Kits



### • High Capacity Battery Pack



### • Detachable Keyboard



### • Carrying Case



### • Digital Pen

