



DT301Y-TR GNSS TABLET

Slim, Rugged, Multi-functional Wireless Computing

The DT Research DT301Y-TR Rugged GNSS Tablet features the integration of a large 10.1" capacitive touch screen, a 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. Rated IP65, MILSTD-810G and MIL-STD-461F, the DT Research DT301Y-TR Rugged GNSS Tablet provides real-time survey grade control points for field applications.



Features

- 10.1" Full-HD capacitive touch screen, 800 nits, digital pen support
- Intel® 8th Generation Core™ i5/i7 processor
- Microsoft® Windows® 10 IoT Enterprise operating system
- NIST compliant BIOS available
- High capacity, hot-swappable battery pack
- Built-in survey-grade dual-frequency GNSS module
- Anti-microbial coating
- IP65 rated, MIL-STD-810G and MIL-STD-461F certified
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified

Major Options

- Front and back cameras
- 2D barcode scanner; reads 1D also
- 4G LTE/AWS

Specifications

System

CPU	Intel® Core™ i5-8250U, Quad-Core, 1.6GHz (up to 3.4GHz) Intel® Core™ i7-8550U, Quad-Core, 1.8GHz (up to 4.0GHz)
RAM	8GB to 16GB
Storage	256GB to 1TB Flash
Operating System	Microsoft® Windows® 10 IoT Enterprise
NIST Compliance	NIST compliant BIOS available
Display	10.1" LED-backlight, high-brightness (800 nits) 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
Microphone	Built-in microphone
Speaker	Built-in speaker

Network Interface

WLAN	Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band
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I/O Ports

USB Ports	USB 3.0 x 1, USB Type C x 1 (for data transmitting and charging)
Headset Jack	1 (3.5mm)
Ethernet	Ethernet 10/ 100/ 1000MB Base-T LAN
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; Hot swappable battery, 11.4V, 8000mAh (optional)
Enclosure	ABS + PC plastics and magnesium-aluminum alloy with anti-microbial coating
Dimensions (H x W x D)	7.8 x 11 x 0.86 in/ 198 x 280 x 21.9 mm
Weight	3.1 lbs/ 1.4 kg
Durability	IP65, MIL-STD-810G and MIL-STD-461F certified
Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing	Yes
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) Storage: -55°C to 70°C (-67°F to 158°F)
Humidity	0% – 90% non-condensing

Major Options

Barcode Scanner	2D barcode scanner; reads 1D also
Camera	2 megapixel front camera, and 8 megapixel back camera with auto focus, white balance, gain control, and exposure control
Mobile Broadband	4G LTE/AWS

* Specifications subject to change without notice.

GNSS Module

Dual Frequency GNSS Module		
Receiver Type	GNSS L1 & L2 RTK with carrier phase	
Signals Received	GPS, GLONASS, BeiDou and Galileo	
Channels	372	
GPS Sensitivity	-142 dBm	
SBAS Tracking	3-channel, parallel tracking	
Update Rate	1 Hz standard, 10 Hz and 20 Hz optional	
	RMS (67%)	2DRMS (95%)
Accuracy (Horizontal)	RTK	10 mm + 1 ppm 20 mm + 2 ppm
	SBAS (WAAS)	0.3 m 0.6 m
	Autonomous, no SA	1.2 m 2.4 m

Accessories

Digital Pen

Pen Tip	Diameter: 0.059 in/ 1.5mm, replaceable
Buttons	2 side buttons (right-click and eraser)
Battery	1 AAAA, replaceable
Color	Black
Dimensions	Length: 5.5 in/ 140 mm (including pen tip) Diameter: 0.38 in/ 9.7 mm
Weight	0.055 lbs/ 25 g



Docking Keyboard

With power and I/O ports; instantly pairs, ideal for 2-in-1 applications.



Desktop Charging Cradle

Docking support with ports for Power, USB, HDMI output and Ethernet.



Tablet Mount Cradle

Offers Tablet storage and security with power supply and I/O ports.



Battery Charging Kits



Helix Antenna



Carrying Case



Battery Pack

