



DT382GL-TR Rugged GNSS Tablet

Slim, Rugged, Multi-functional Wireless Computing

The DT Research DT382GL-TR Rugged GNSS Tablet features the integration of a large 8" capacitive touchscreen, a powerful Intel® Pentium® Silver quad-core 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 and MILSTD-810H, the DT382GL-TR Rugged GNSS Tablet provides real-time survey grade control points for field applications.



Features

- 8" LED-Backlit, high-brightness (800 Nits) touchscreen
- Intel® Pentium® Silver 4-core processor
- Microsoft® Windows® 10/11 IoT Enterprise operating system
- Hot-swappable battery pack
- Built-in survey-grade dual-frequency GNSS module
- IP65-rated for water and dust resistance
- MIL-STD-810H for shock and vibration protection
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified

Major Options

- 8 MP Back Camera
- 2D Barcode Scanner (Reads 1D and 2D)
- NFC/RFID Reader
- 4G LTE/AWS

Specifications

System	
CPU	Intel® Pentium® Silver Quad-Core, 1.10GHz (up to 2.70GHz)
RAM	8GB to 16GB
Storage	512GB to 1TB flash
Operating System	Microsoft® Windows® 10 IoT Enterprise
NIST Compliance	NIST compliant BIOS available
Display	8" LED-backlit, high-brightness (800 nits) touchscreen, outdoor viewable
Display Resolution	1280 x 800
Trusted Platform Module	fTPM 2.0
Fan/ Fanless	Fanless
Speaker	Built-in speaker

Network Interface	
WLAN	Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band

I/O Ports	
USB Ports	1 x USB 3.0, 1 x latest USB/charging
Headset Jack	1 (3.5mm)
SD Slot	1 micro SD card slot
Control Switch and Buttons	1 x power button, 2 x trigger buttons, 2 x brightness buttons, 4 x programmable buttons

Mechanical and Environmental	
AC/DC Adapter	Input: 100 to 240V AC; Output: 20V DC, 3.25A
Battery Pack	Hot-swappable battery, 7.2V, 6150mAh
Enclosure	ABS + PC plastics
Dimensions (H x W x D)	6.1 x 9.4 x 1.3 in x / 155 x 238 x 33 mm
Weight	2.43 lbs/ 1.1 kg
Durability	IP65, MIL-STD-810H
Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing	Yes
Regulatory	CE, FCC Class B, RoHS
Temperature	Operation: -10°C to 50°C (14°F to 122°F); Storage: -50°C to 70°C (-58°F to 158°F)
Humidity	0% to 90% non-condensing

Major Options	
Barcode Scanner	2D Barcode Scanner (Reads 1D and 2D)
Camera	8 MP Back Camera
NFC/RFID Reader	HF 13.56MHz, ISO standard 15693, 14443A(B) and 18000-3 mode-1
Mobile Broadband	4G LTE/AWS

* Specifications subject to change without notice.

GNSS Module			
Dual Frequency GNSS Module			
Receiver Type	GNSS L1 and 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		
Accuracy (Horizontal)		RMS (67%)	2DRMS (95%)
	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

- Desktop Charging Cradle
- Wall/Vehicle Mount Cradle



- Pole/Vehicle Mount Cradle
- Battery Gang Charger



- Digital Pen



- Foldable Helix Antenna



- Pole Mount Dual Frequency GNSS Antenna and RF Cable

