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 touch screen, 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-810G, the DT382GL-TR Rugged GNSS Tablet provides real-time survey grade control points for field applications.

Features

- 8" capacitive touch screen, digital pen support
- Intel® Pentium® Silver quad-core processor
- Microsoft® Windows® 10 IoT Enterprise operating system
- Built-in survey-grade dual-frequency GNSS module
- IP65-rated for water and dust resistance
- MIL-STD-810G for shock and vibration protection
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified
- Hot swappable battery pack

Major Options

- Back camera
- Barcode scanner
- NFC/ RFID reader
- Mobile broadband; 4G LTE/AWS module

Specifications

System

CPU	Intel® Pentium® Silver Quad-Core, 1.10GHz (up to 2.70GHz)
RAM	8GB to 16GB
Storage	256GB to 1TB flash
Operating System	Microsoft® Windows® 10 IoT Enterprise
NIST Compliance	NIST compliant BIOS available
Display	8" LED-backlight, high-brightness (800 nits) screen with capacitive touch, outdoor viewable
Display Resolution	1280 x 800
Trusted Platform Module	fTPM 2.0
Fan/ Fanless	Fanless
Control Switch and Buttons	1 power button, 2 brightness control buttons, 4 programmable buttons
Speaker	Built-in speaker

Network Interface

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

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)
SD Slot	1 micro SD card slot

Mechanical and Environmental

AC/DC Adapter	Input: 100-240V 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 and MIL-STD-810G
Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing	Yes
Regulatory	FCC Class B, CE, RoHS compliant
Temperature	Operation: -10°C to 50°C (14°F to 122°F); Storage: -20°C to 60°C (-4°F to 140°F)
Humidity	0% – 90% non-condensing

Major Options

Barcode Scanner	2D barcode scanner; reads 1D also
Camera	8 megapixel back camera with auto focus, white balance, gain control, and exposure control
NFC/RFID Reader	HF 13.56MHz, ISO standard 15693, 14443A(B) & 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 & 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