

# **UT50**Ruggedized Mobile Solutions

The UT50 uses industry-leading protection technology and a high brightness electromagnetic screen to overcome a variety of harsh environments. A variety of interfaces and extensions are available to enable a wide range of industry and engineering applications. The UT50 is your reliable partner to achieve your goals.



## 10.1 inch high brightness electromagnetic screen

The UT50 is equipped with a 10.1-inch high 800 lumens bright display, and it is clearly visible in the sun and easily overcomes a variety of harsh environments. The electromagnetic stylus can be configured to achieve precise touch of the device.

#### High performance processor

With the 6th generation Intel Skylake Core i5 processor, it can reduce the rate of power consumption for the product while ensuring high processing power, and carry out multi-tasking efficiently.

### Dual battery design, uninterrupted power supply

Dual-battery power supply, hot-swappable design, help you achieve operational time, uninterrupted engineering work, users can replace the battery without shutting down the device.

#### Built-in GNSS and other sensors

Standard GNSS positioning module supports Beidou/GPS/-GLONASS multi-system positioning, built-in speedometer, compass, fingerprint sensor and other sensors to meet a variety of application scenarios.

#### Front and rear-facing cameras

With front FHD camera and rear 8MP camera, users can easily take photos, video and organize video conferences.

#### Unlimited possibilities

The product has a reserved expansion slot, the user can use it to expand RS232, long distance WIFI and QR Code scanning to expand your devices possible applications.

#### Ultimate protection, solid as a rock

The UT50 is made of a magnesium alloy body, fully rugged design, the protection grade is up to IP68, resistance to 1.2m drop, and performance conforms to MIL-STD-810 G, MIL-STD-461F certification standards.

## **Product Specification**

Model	Physical		Interfaces	
Processor	Model	UT50	I/O Ports	USB3.0 9-pin x 1
2.3GHZ up to 2.8GHZ(with turbo boost)  3MB Intel Smart Cache Operating System Microsoft™ Windows™ 10 Enterprise 64bit Memory 8GB RAM Storage 128GB SSD Docking Connector - Pogo 12-pin x 1 Storage 128GB SSD Docking Connector - Pogo 35-pin x 1 MicroSD Slot Ves Cellular WWAN (Sierra) 1280x800 Dispiay Sunlight-Viewable 10 finger capacitive touchscreen LAN Support wet hands and gloves operation Support wet hands and gloves operation WPF Front 2MP Sensors Technology Hot Swap  Sensors Technology Hot Swap  Accelorometer Yes Ambient Light Yes Bardy Sproscope Yes Weight 1.54kg (Including 2 batteries) Proxy Will-STM-88G NIL-STD Mill-STD Mill-STD-810G Mill-STD-810G Mill-STD-810G Mill-STD-810G Mill-STD-810G Mill-STD-810G Mill-STD-810G Mill-STD-810G Mill-STD-810C Certifications		10.1" Fully Rugged Tablet		USB2.0 4-pin x 1
AMB Intel Smart Cache Operating System Microsoft™ Windows™ 10 Enterprise 64bit  Memory  8GB RAM  1/0 Expansion - Pogo 12-pin x 1  1/2 Docking Connector - Pogo 35-pin x 1  1/2 Docking Connector - Pogo	Processor	Intel® Core™ Skylake i5-6200 processor		HDMI Type-A x 1
Operating System       Microsoft™ Windows™ 10 Enterprise 64bit       DC in Jack x 1         Memory       8GB RAM       I/O Expansion - Pogo 12-pin x 1         Storage       128GB SSD       Docking Connector - Pogo 35-pin x 1         MicroSD Slot       Yes       Connectivity         Dimensions Resolution       10.1°       Cellular       WWAN (Sierra)         1280x800       Single SIM (Nano)       Single SIM (Nano)         Display       Sunlight-Viewable       Wireless LAN       Wi-Fi™ 802.11 a/b/g/n/ac         LAN       Yes       Yes         Camera         Support wet hands and gloves operation       Bluetooth       4.2         NFC       Yes         Rear       8MP       Power         Front       2MP       Battery       2900mAh x 2         Sensors       72 ch u-blox M8N L1 GPS       Security       Hot Swap         Sensors       Front       2MP       Security       Foundable of the Swap         Sensors       Foundable of the Swap       Security       Foundable of the Swap         Sensors       Power       Rear       Rear       Rear       Mensington® Lock slot         Ambient Light<		2.3GHZ up to 2.8GHZ(with turbo boost)		Audio Jack 3.5mm Headphone
Memory         8GB RAM         I/O Expansion - Pogo 12-pin x 1           Storage         128GB SSD         Docking Connector - Pogo 35-pin x 1           MicroSD Stot         Yes         Connectivity           Dimensions Resolution         10.1°         Cellular         WWAN (Sterra)           1280x800         Wireless LAN         Wi-Fi™ 802.11 a/b/g/n/ac           Display         Sunlight-Viewable         Wireless LAN         Wi-Fi™ 802.11 a/b/g/n/ac           LAN         Yes         Yes           Rear         Support wet hands and gloves operation         Bluetooth         4.2           Camera         MMP         Power           Front         2MP         Battery         2900mAh x 2           Sensors         Technology         Hot Swap           Security           GIONASS/BeiDou/Gallieo         Security         Features         TPM V2.0           Accelorometer         Yes         Body         Prominity         Yes         Body           Frominity         Yes         Dimensions & Height         Size: 294mm x 198mm x 21.5mm         Michael Size: 294mm x 198mm x 21.5mm           Gyroscope         Yes         Weight         1.54kg (Including 2 batteries)         MIL-STD-461F		3MB Intel Smart Cache		Mic-in Combo x 1
Storage 128GB SSD Docking Connector - Pogo 35-pin x 1  MicroSD Slot Yes Connectivity  Dimensions Resolution 10.1* Cellular WWAN (Sierra)  1280x800 Single SIM (Nano)  Display Sunlight-Viewable Wireless LAN Wi-Fi™ 802.11 a/b/g/n/ac  10 finger capacitive touchscreen LAN Yes  Support wet hands and gloves operation Support wet hands and gloves operation Bluetooth 4.2  Camera 8MP Power  Front 2MP Battery 2900mAh x 2  Sensors T2 ch u-blox M8N L1 GPS Security  GLONASS/BeiDou/Galileo Security  GLONASS/BeiDou/Galileo Security Features TPM V2.0  Accelorometer Yes Body  Proximity Yes Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes Weight 1.54kg (Including 2 batteries)  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  MIL-STD-810G  MIL-STD-810G  MIL-STD-810F  Environental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C	Operating System	Microsoft™ Windows™ 10 Enterprise 64bit		DC in Jack x 1
MicroSD Slot   Yes   Connectivity	Memory	8GB RAM		I/O Expansion - Pogo 12-pin x 1
Dimensions Resolution 10.1"  Cellular WWAN (Sierra)  Single SIM (Nano)  Display Sunlight-Viewable Wireless LAN Wi-Fi™ 802.11 a/b/g/n/ac  10 finger capacitive touchscreen Support wet hands and gloves operation  Bluetooth 4.2  Camera NFC Yes  Rear 8MP Power  Front 2MP Battery 2900mAh x 2  Sensors Technology Hot Swap  GNSS 72 ch u-blox M8N L1 GPS Security  GLONASS/BeiDou/Galileo Security  Accelorometer Yes Kensington® Lock slot  Ambient Light Yes Body  Proximity Yes Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes Weight 1.54kg (Including 2 batteries)  Compass Yes Rugged Features  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature 20°C ~ 55°C  Storage Temperature -40°C ~ 70°C	Storage	128GB SSD		Docking Connector - Pogo 35-pin x 1
Display Sunlight-Viewable Wireless LAN Wi-Fi™ 802.11 a/b/g/n/ac  10 finger capacitive touchscreen LAN Yes Support wet hands and gloves operation Bluetooth 4.2  Camera NFC Yes  Rear 8MP Power  Front 2MP Battery 2900mAh x 2  Sensors Technology Hot Swap  GNSS 72 ch u-blox M8N L1 GPS Security  GLONASS/BeiDou/Galileo Security Features TPM V2.0  Accelorometer Yes Kensington® Lock slot  Ambient Light Yes Body  Proximity Yes Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes Weight 1.54kg (Including 2 batteries)  Compass Yes Rugged Features  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C	MicroSD Slot	Yes	Connectivity	
Display Sunlight-Viewable Wireless LAN Wi-Fi™ 802.11 a/b/g/n/ac  10 finger capacitive touchscreen LAN Yes Support wet hands and gloves operation Bluetooth 4.2  Camera NFC Yes  Rear 8MP Power Front 2MP Battery 2900mAh x 2  Technology Hot Swap  GLONASS/BeiDou/Galileo Security GLONASS/BeiDou/Galileo Security Features TPM V2.0  Accelorometer Yes Kensington® Lock slot  Ambient Light Yes Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes Weight 1.54kg (Including 2 batteries)  Compass Yes Rugged Features  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Dimensions Resolution	10.1"	Cellular	WWAN (Sierra)
To finger capacitive touchscreen Support wet hands and gloves operation  Camera  NFC Yes  Rear  8MP  Power  Front  2MP  Battery  2900mAh x 2  Technology  Hot Swap  GLONASS/BeiDou/Galileo  Security  GLONASS/BeiDou/Galileo  Security  Froximity  Yes  Body  Proximity  Yes  Body  Proximity  Yes  Body  Proximity  Yes  Brander  No  IP Rating  IP68  Hall  Yes  Drop Tested  1.2m drop resistant  MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature  -20°C ~ 55°C  Storage Temperature  -40°C ~ 70°C  Certifications		1280x800		Single SIM (Nano)
Support wet hands and gloves operation  Camera  Rear  8MP  Power  Front  2MP  Battery  Technology  Hot Swap  GLONASS/BeiDou/Galileo  Accelorometer  Yes  Ambient Light  Yes  Body  Proximity  Yes  Body  Proximity  Yes  Rugged Features  Barometer  No  Hall  Yes  Drop Tested  1.2m drop resistant  Fingerprint  Yes  MIL-STD  MIL-STD-461F  Enviromental Specification  Operating Temperature  -20°C ~ 70°C  Certifications	Display	Sunlight-Viewable	Wireless LAN	Wi-Fi™ 802.11 a/b/g/n/ac
Rear 8MP Power Front 2MP Battery 2900mAh x 2  Sensors Technology Hot Swap  GNSS 72 ch u-blox M8N L1 GPS Security  GLONASS/BeiDou/Galileo Security Features TPM V2.0  Accelorometer Yes Kensington® Lock slot  Ambient Light Yes Body  Proximity Yes Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes Weight 1.54kg (Including 2 batteries)  Compass Yes Rugged Features  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C		10 finger capacitive touchscreen	LAN	Yes
Rear 8MP Front 2MP Battery 2900mAh x 2  Sensors Technology Hot Swap  GNSS 72 ch u-blox M8N L1 GPS GLONASS/BeiDou/Galileo Security  GLONASS/BeiDou/Galileo Security Features TPM V2.0  Accelorometer Yes Kensington® Lock slot  Ambient Light Yes Body  Proximity Yes Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes Weight 1.54kg (Including 2 batteries)  Compass Yes Rugged Features  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C		Support wet hands and gloves operation	Bluetooth	4.2
Front 2MP  Sensors  Technology Hot Swap  GNSS  72 ch u-blox M8N L1 GPS  GLONASS/BeiDou/Galileo  Accelorometer Yes  Ambient Light Yes  Proximity Yes  Gyroscope  Yes  Weight  1.54kg (Including 2 batteries)  Rugged Features  Barometer  No  IP Rating  IP68  Hall  Yes  Drop Tested  1.2m drop resistant  MIL-STD-461F  Enviromental Specification  Operating Temperature  -20°C ~ 55°C  Storage Temperature  -40°C ~ 70°C  Certifications	Camera		NFC	Yes
Technology Hot Swap  GNSS 72 ch u-blox M8N L1 GPS  GLONASS/BeiDou/Galileo Security  GLONASS/BeiDou/Galileo Security Features TPM V2.0  Accelorometer Yes Kensington® Lock slot  Ambient Light Yes Body  Proximity Yes Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes Weight 1.54kg (Including 2 batteries)  Compass Yes Rugged Features  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  MIL-STD-810G  MIL-STD-461F  Enviromental Specification Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Rear	8MP	Power	
GNSS 72 ch u-blox M8N L1 GPS GLONASS/BeiDou/Galileo Security  Security  Security  Security  Security  Security  Features  TPM V2.0  Kensington® Lock slot  Body  Proximity Yes  Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes  Weight 1.54kg (Including 2 batteries)  Compass  Yes  Barometer No  IP Rating IP68  Hall Yes  Drop Tested 1.2m drop resistant  MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C	Front	2MP	Battery	2900mAh x 2
GLONASS/BeiDou/Galileo  Security Features  TPM V2.0  Accelorometer  Yes  Ambient Light  Yes  Body  Proximity  Yes  Dimensions & Height  Size: 294mm x 198mm x 21.5mm  Gyroscope  Yes  Weight  1.54kg (Including 2 batteries)  Rugged Features  Barometer  No  IP Rating  IP68  Hall  Yes  Drop Tested  1.2m drop resistant  MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature  -20°C ~ 55°C  Storage Temperature  -40°C ~ 70°C	Sensors		Technology	Hot Swap
Accelorometer Yes  Ambient Light Yes  Proximity Yes  Dimensions & Height Size: 294mm x 198mm x 21.5mm  Gyroscope Yes  Weight 1.54kg (Including 2 batteries)  Compass Yes  Barometer No  IP Rating IP68  Hall Yes  Drop Tested 1.2m drop resistant  MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	GNSS	72 ch u-blox M8N L1 GPS	Security	
Ambient Light  Yes  Dimensions & Height  Size: 294mm x 198mm x 21.5mm  Weight  1.54kg (Including 2 batteries)  Rugged Features  Barometer  No  IP Rating  IP68  Hall  Yes  Drop Tested  1.2m drop resistant  Fingerprint  Yes  MIL-STD  MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature  -20°C ~ 55°C  Storage Temperature  -40°C ~ 70°C  Certifications		GLONASS/BeiDou/Galileo	Security Features	TPM V2.0
Proximity Yes Dimensions & Height Size: 294mm x 198mm x 21.5mm Weight 1.54kg (Including 2 batteries)  Rugged Features Barometer No IP Rating IP68 Hall Yes Drop Tested 1.2m drop resistant  MIL-STD-810G MIL-STD-461F  Enviromental Specification Operating Temperature -20°C ~ 55°C Storage Temperature -40°C ~ 70°C  Certifications	Accelorometer	Yes		Kensington® Lock slot
Gyroscope Yes Weight 1.54kg (Including 2 batteries)  Compass Yes Rugged Features  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Ambient Light	Yes	Body	
Compass Yes Rugged Features  Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Proximity	Yes	Dimensions & Height	Size: 294mm x 198mm x 21.5mm
Barometer No IP Rating IP68  Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Gyroscope	Yes	Weight	1.54kg (Including 2 batteries)
Hall Yes Drop Tested 1.2m drop resistant  Fingerprint Yes MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Compass	Yes	Rugged Features	
Fingerprint Yes  MIL-STD MIL-STD-810G  MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Barometer	No	IP Rating	IP68
MIL-STD-461F  Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Hall	Yes	Drop Tested	1.2m drop resistant
Enviromental Specification  Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications	Fingerprint	Yes	MIL-STD	MIL-STD-810G
Operating Temperature -20°C ~ 55°C  Storage Temperature -40°C ~ 70°C  Certifications				MIL-STD-461F
Storage Temperature -40°C ~ 70°C  Certifications			Enviromental Speci	fication
Certifications Control of the Contro			Operating Temperature	-20°C ~ 55°C
			Storage Temperature	-40°C ~ 70°C
Certificates FCC, IC, CE, RoHS			Certifications	
			Certificates	FCC, IC, CE, RoHS