



**Main Feature**

- Android 4.x OS
- Google Play Market
- Larger Screen 4"
- Dual-battery System
- Expansion modules available
- HI-speed Barcode 2D/1D
- RFID LF/HF/UHF Bands
- Plug&Play FP Adapter

**Accessories & Options**



**Overview**

The IDT4000 is a series of highly reliable, highly expandable Android-powered smart terminals, with data capture, data processing, and wireless communication. Automated accurate data collection can be achieved in various business fields via a complete solution of data collection options. Tracking for a variety of RFID tags, and barcode-labelled products is easily integrated into your application. The Android environment provides easy deployment, reduced complexity, decreased maintenance, all of which bring a cost benefit to your enterprise. Meeting accepted industrial standards, and designed to support various mobile solutions; with a built-in high performance Cortex-A9 1GHZ dual core processor technology, the IDT4000 has the power and flexibility to meet your needs.

The IDT4000 meets IP64 (IEC sealing), withstands drops from over a meter onto concrete, and has a wide operating temperature range. This robustness makes it an ideal product for applications such as railway inspection, stock control, road parking toll, vehicle inspection, logistics express, power inspection, warehousing management, retail, and others.

**Specification**

**PHYSICAL CHARACTERISTICS**

Dimension	153 × 75 × 29mm / 6.02 × 2.95 × 1.14in.
Weight	286g / 10.08oz. (includes main battery)
Display	4" WVGA (480 × 800) TFT-LCD, Capacitive dual touch
Keypad	3 function buttons, 3 side buttons, 4 TP touch key-press buttons
Batteries	Main bat. rechargeable li-ion battery 3200mAh Pistol bat. rechargeable li-ion battery 5200mAh (with pistol grip)
Expansion slots	1PSAM, 1SIM
Audio	0.5Watt speaker, build-in microphone
Interfaces	USB Micro-B, serial port RS-232 (TTL)

**PERFORMANCE CHARACTERISTICS**

CPU	Cortex-A9 1GHz Dual Core
RAM	1GB RAM
Storage	4GB FLASH, MicroSD max.32GB expansion

**PROGRAMMING ENVIRONMENT**

Operating system	Android 4.0.4
Language	Java
Tool	eclipse

**USER ENVIRONMENT**

Operating Temp.	-10 to 50°C / 14 to 122°F
Storage Temp.	-40 to 70°C / -40 to 158°F
Humidity	5% - 95%RH (Non-condensing)
Tumble Spec.	1,000times, 0.5m/1.64ft tumbles, rolling by six contact surface, meets and exceeds MIL-STD810G
Sealing / Drop Spec.	IP64; 1.2 meter drop to concrete, 6 drops per 6 sides over operating temperature range
ESD	+/-15kv VDC air discharge +/-8KV VDC direct discharge

**COMMUNICATION**

WLAN	WI-FI IEEE802.11b/g/n
WWAN&Voice	WCDMA/HSDPA/HSPA+ (850/1900MHz or 850/2100MHz) GSM/GPRS/EDGE (850/900/1800/1900MHz) GSM/GPRS/EDGE (850/900/1800/1900MHz)
WPAN	Bluetooth specification v2.1+EDR Bluetooth specification v3.0+HS compliance Bluetooth v4.0 Low Energy (LE)
GPS	GPS (Embedded A-GPS)

**CAMERA (OPTIONAL)**

5.0 mega pixels, auto focus

**BARCODE SCANNER**

1D Linear Scanner (Optional)	
1D Laser/CCD	Symbol SE955 / SE655
Symbologies	All major 1D barcodes
2D Imager Scanner (Optional)	
2D CMOS laser scanner	Symbol SE4500
scanner Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, A ztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

**RFID READER**

LF (Optional)	
Frequency	125KHz, 134KHz (FDX-B / HDX)
Protocol	ISO11784/5
Chips	1) R/O ID card eg.EM4100/4200, TK4100 2) R/W ID card eg.EM4305/HITAG S 3) Animal tags 4) Others for customization
R/W range	2 - 8cm (FDX-B), 2 - 16cm (HDX)
HF (Optional)	
Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693
Chips	1) M1card (S50/S70), M0 (Ultralight), M3 ( Desfire D40/ D41 / D81), CPU_A card 2) CPU_B card 3) ICODE II, TI2048, LRI64K 4) Others for customization
R/W range	2 - 8cm / 0.79 - 3.15in.
UHF (Optional)	
Frequency	865 - 868MHz / 920 - 925MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Linear polarization (2dBi)
Power	1W ( +10dBm to +30dBm )
Range	Option1, 1 to 3m/3.28 to 9.84ft. / Option2, 1 to 5m/3.28 to 16.4ft. (tags and environment dependant)

**BIOMETRIC FINGERPRINT (OPTIONAL)**

Sensor	TCS2SS
Sensor type	capacitive, area sensor
Function	Enrolment, compare, deletion etc.
Resolution	508DPI
Memory	1,000 PCS fingerprints

**PSAM SECURITY (OPTIONAL)**

Baud rate	9600, 19200, 38400, 43000, 56000, 57600, 115200
Protocol	ISO7816
Slot	2 slots (maximum)

**Accessories**

**Main Battery**

**Colours: white, black.**  
3,200 mAh Rechargeable Li-ion Polymer Battery, provides 13 hours of usage at 5 scans/TX/RX per min



**Pistol Battery (optional)**

**Colour: black.**  
5,200 mAh Rechargeable Li-ion Polymer Battery (extended in pistol grip)  
"main battery + pistol battery" provides 28 hours of usage at 5 scans/TX/RX per min.

**AC Adapter**

**Colour: black.**  
The Universal AC Adapter of 100-240V, 50-60Hz. 5 options of plugs can be selected (Euro-standard, UK-standard, JP-standard, US-standard, SAA-standard)



**USB Cable**

**Colour: black.**  
The USB Cable is for synchronization and charging

**Hand Strap**

**Colours: black.**  
The Hand Strap secures the handheld computer/terminals to the user's palm to prevent accidental dropping of the devices. It also allows the battery cover to fastened to device.



**Snap-on Adapter**

**Colours: white, black.**  
Connecting IDT4000 and provides DC charging port, USB data port and UART expansion port.

**Dual Unit Charger Cradle/Docking Station (optional)**

**Colour: black.**  
Charges IDT4000 series while simultaneously charging a spare battery (main battery) in a receptacle on the side of the unit. It also provides DC charging port, USB data port and UART expansion port.



**Images**



**Ordering Information**

**Base unit options:**

- IDT4000 - GSM/GPRS/WCDMA, Wifi, BT, GPS
- IDT4000-A1 - 1D Barcode GSM/GPRS/WCDMA, Wifi, BT, GPS
- IDT4000-A2 - 1D/2D Barcode GSM/GPRS/WCDMA, Wifi, BT, GPS
- IDT4000-A3 - Mifare or 125 LF GSM/GPRS/WCDMA, Wifi, BT, GPS
- IDT4000-A4 - UHF GSM/GPRS/WCDMA, Wifi, BT, GPS
- IDT4000-A5 - 1D Barcode Mifare or LF GSM/GPRS/WCDMA, Wifi, BT, GPS
- IDT4000-A6 - 1D/2D Barcode Mifare or LF GSM/GPRS/WCDMA, Wifi, BT, GPS
- IDT4000-A7 - 1D Barcode UHF GSM/GPRS/WCDMA, Wifi, BT, GPS
- IDT4000-A8 - 1D/2D Barcode UHF GSM/GPRS/WCDMA, Wifi, BT, GPS

**Optional Extras:**

- OPIDT-223 - GSM/GPRS Dual Band
- OPIDT-231 - GSM/GPRS Quad Band
- OPIDT-233 - Bluetooth
- OPIDT-234 - GPS
- OPIDT4000-120 - Pistol Grip
- OPIDT-238 - Alpha Numeric Keypad
- OPIDT-120 - Cradle