PRODUCT SPEC SHEET

DT50-Pro Edition

Enterprise Mobile Computer



Meet the DT50-Pro Edition

Upgraded Flagship Moblie Computer

Optimized to meet evolving enterprise mobility demands, the DT50-Pro Edition delivers enhanced performance, faster connectivity, and reliable data capture—while maintaining full compatibility with existing accessories.

Powered by an octa-core 2.4GHz processor and Android 16 (GMS), it reaches an AnTuTu score of up to 410,000—enabling smooth multitasking and stable performance for demanding enterprise applications.

Wi-Fi 6E (2X2 MU-MIMO) reduces interference and latency, while Bluetooth 5.3 boosts connection stability by 13%—ensuring seamless communication across workflows.

The upgraded 16MP rear camera captures 23% more detail than standard 13MP models, enabling faster focus and clearer imaging—even in low-light conditions, from POD to inspections.

From retail and logistics to the supply chain—and across industries—the next-generation DT50-Pro Edition delivers faster performance, stronger connectivity, and more reliable data capture, along with up to 50% longer battery life, helping enterprises streamline operations and stay competitive in an increasingly digital world.

Product Highlights

Enhanced Performance for Demanding Workloads

Powered by a high-performance 2.4GHz octa-core processor and Android 16 with GMS, it delivers fast, responsive performance and smooth multitasking for demanding applications.
With an AnTuTu benchmark score of approximately 410K, it provides a 20% performance increase over its predecessor, enabling smoother workflows and more stable operation for data-intensive, mission-critical tasks.

Stronger, More Stable Connectivity

Features upgraded wireless connectivity for high-density and interference-prone environments. Equipped with Wi-Fi 6E (22 MU-MIMO), it leverages an additional 1,200 MHz of clean spectrum and wider channels to reduce interference and latency, resulting in faster and more reliable data transmission.

Enhanced Bluetooth Stability

Paired with Bluetooth 5.3, it delivers a 13% improvement in connection stability compared to the previous generation, enabling more consistent communication with peripherals and backend systems, even in complex deployment environments.

Advanced Data Capture

Combines a professional-grade scan engine with an upgraded 16MP rear camera, enabling fast and accurate barcode decoding alongside clearer imaging and quicker focusing—even in low-light conditions. Capturing 23% more detail than standard 13MP cameras, it improves efficiency in inventory management, proof-of-delivery, and asset tracking while reducing errors and rework.

Large and Clear Display

Featuring a 5.7-inch full-screen display with optional HD resolution, it delivers sharper visuals and improved readability. The large screen enhances viewing comfort and operational efficiency for inventory management, order processing, and data entry.

Long-Lasting Power for Continuous Operations

Equipped with a replaceable 5000mAh battery, it delivers up to 50% longer battery life, while fast charging helps keep workflows running with minimal downtime.

Optimized Audio Performance

Built with a high-performance speaker, it ensures loud and clear audio output even in noisy environments such as warehouses, busy retail stores, and factory floors. This enables more reliable voice communication, task notifications, and workflow coordination in daily operations.

Seamless Upgrade with Full Ecosystem Compatibility

Features Pogo-pin connectors on both the back and bottom, ensuring full compatibility with the existing accessory ecosystem. This allows businesses to upgrade devices seamlessly without replacing charging cradles, trigger handles, or mounting solutions, protecting prior investments and minimizing total cost of ownership.

Industrial-Grade Durability

Built for demanding environments, it features IP67 sealing and 1.5-meter drop resistance to withstand dust, water, and accidental drops. It delivers reliable and stable performance for intensive daily use across retail, logistics, manufacturing, healthcare, and field operations.

Streamlined Device Setup & Enterprise Management

UROVO U-Stage is designed to make device setup faster and simpler, helping customers get all their devices ready for use with minimal effort. By creating a staging file with the required configurations, settings, and applications, devices can be automatically set up through remote deployment, local file import, or QR code scanning—without manual procedures.

OEMConfig also integrates with enterprise EMM platforms, enabling customized policy deployment, permission control, and compliance management across devices.

Visualized Fleet Management

UROVO UMS (Unified Management System) provides visualized management, enabling IT administrators to centrally manage multiple mobile devices from a single dashboard across different device types and operating systems. It supports shared device access control, application whitelisting and blacklisting, as well as granular user and device group permissions. From deployment to decommissioning, UMS streamlines device and smart battery lifecycle management, remote data wipe, and password policy enforcement—helping enterprises protect critical data while improving workforce productivity.

Specifications

PERFORMANCE CHARACTERISTICS

CPU	Octa-core 2.4GHz Antutu Score 418,013(ANTUTU V11)
Operating System	Android 16.0, Upgradable to Android 20
Memory	4GB RAM/64GB ROM 6GB RAM/64GB ROM(Optional) 8GB RAM/128GB ROM(Optional)

PHYSICAL CHARACTERISTICS

Dimensions	162.6 mm L x 76 mm W x 13.6 mm D
Weight	265g
Display	5.7 inches 720 x 1440（1080 x 2160 Optional）, LCD, 450 nits
Touchpanel	Multi-mode capacitive touch with bare or gloved fingertip input or stylus (sold separately); Water droplet rejection; Fingerprint resistant anti-smudge coating
Power	User replaceable battery Standard capacity 3.85V 5000mAh / 19.25Wh (Optional 3.84V 5,200mAh / 19.97Wh) Smart Battery Management (5200mAh)
Quick Charging	Optional
Expansion Slot	User-accessible microSD card up to 2 TB
SIM / SAM	Hybrid Dual SIM Slot (2 Nano SIM or 1 Nano SIM/1 Micro SD) - 2'nd Nano SIM is supported by micro SD Card Slot 2 Nano SIM or 1 Nano SIM and 1 e-SIM Dual SIM/Dual Standby
Interface	Rear: 9-pin communication I/O; Bottom: USB-C 3.0(support OTG), 2-pin Charging Connector
Notification	Audible tone; Vibration; LED
Keypad & Button	On-screen keypad and Enterprise Keyboard; Power button; Volume up/down buttons; Dual-action side scan buttons; Programmable action button: Default to PTT
Voice and Audio	Two noise-canceling microphones; High-quality Single speaker phone; PTT headset USB-C support; Bluetooth wireless headset support, SWB & FB audio; cellular circuit switch voice; HD voice
PTT Hot Key	Programmable action buttons: Default to PTT

WIRELESS WAN DATA AND VOICE COMMUNICATIONS

Radio Frequency Band	Europe&Asia(Without JAPAN): TD-LTE(B34/B38/B39/B40/B41) FDD-LTE(B1/B3/B5/B7/B8/B20) WCDMA(B1/B2/B5/B8) TD-SCDMA(B34/B39) CDMA2000 1x EV-DO Rev.A BC0 (800MHz) CDMA1x GSM/EDGE/GPRS(850/900/1800/1900) Europe&Asia(With JAPAN): TD-LTE(B34/B38/B39/B40/B41) FDD-LTE(B1/B3/B5/B7/B8/B19/B20/B21/B26/B28A/B28B) WCDMA(B1/B2/B5/B8) TD-SCDMA(B34/B39) CDMA2000 1x EV-DO Rev.A BC0 (800MHz) CDMA1x GSM/EDGE/GPRS(850/900/1800/1900) Worldwide: TD-LTE(B34/B38/B39/B40/B41) FDD-LTE(B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B28A/B28B) WCDMA(B1/B2/B4/B5/B8) TD-SCDMA(B34/B39) CDMA2000 1x EV-DO Rev.A BC0 (800MHz) CDMA1x GSM/EDGE/GPRS(850/900/1800/1900) Dual SIM/Dual Standby, VoLTE, Gigabit LTE-A
GPS	GPS, A-GPS, GLONASS, Galileo, BeiDou

WIRELESS LAN

Radio	IEEE 802.11 a/b/g/n/ac/ax/d/e/h/i/k/r/v/w; 2x2 MU-MIMO; Wi-Fi™ 6E; IPv4, IPv6
Data Rates	6 GHz: 802.11ax — 20 MHz, 40 MHz, 80 MHz— up to 1201 Mbps 5 GHz: 802.11a/n/ac/ax — 20 MHz, 40 MHz, 80 MHz— up to 1201 Mbps 2.4 GHz: 802.11b/g/n/ax — 20 MHz, 40 MHz — up to 573.5 Mbps
Security and Encryption	WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES),EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC , LEAP and EAP-PWD; WPA3 Enterprise 192-bit mode (GCMP-256) - EAP-TLS; Enhanced Open (OWE); WPA3-FT, SCV (Server Certificates Validation)

WIRELESS PAN

Bluetooth	Configurable Class 1 and 2, Bluetooth v5.3; Classic Bluetooth(BR/EDR) and Bluetooth LE

DATA CAPTURE

Scanning	Standard Range 1D/2D scan engine; FlexRange 1D/2D scan engine (Optional)
Camera	Rear: 16MP autofocus; flash LED, PDAF; Torch mode; Front : 5MP Fixed, FF
NFC	NFC-Forum (NFC-IP MODES) 1. Reader (PCD) - NFC Forum Tag Types 1 To 5 - ISO/IEC 14443 A / 14443 B/ 15693 - Mifare Classic 1K/4K / DESFire - Mifare UltraLight - Sony FeliCa 2. Card Emulation - ISO/IEC 14443 A / 14443 B - Mifare Classic 1K/4K - Sony FeliCa
Biometrics	Rear fingerprint

SENSOR

Light Sensor	Ambient Light
Other Sensors	Accelerator+ Proximity + Geomagnetic + Gyro + Finger

USER ENVIRONMENT

Operating Temp	-20℃ to 60℃ / -4℉ to 140℉
Storage Temp	-40℃ to 70℃/ -40℉ to 158℉
Humidity	5%-95% non-condensing
Drop Spec	1.5 m/4.9 ft. ,1.8 m/5.9 ft.(with rugged case) drops to tile over concrete over operating temp (-10℃ to 60℃/14℉ to 140℉) per MIL-STD 810H
Tumble Spec	1000 1.6 ft./1 meter tumbles at room temperature with Rugged boot
Sealing	IP67
Vibration	12.2 g PK Sine (10 Hz to 55 Hz); 2.0 mm Double Amplitude (Constant Displacement); 60 minute duration per axis, 3 axis
Thermal Shock	-40℃ to 70℃(-40℉ to 158℉)thermal shock; 12 cycles (1 cycle = 1 hour at -40℃ and 1 hour at 70℃); 2-hour recovery at room temperature before inspection
Electrostatic Discharge (ESD)	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge

SOFTWARE SOLUTIONS

UEE Software Solutions	Enterprise Management: Unified Management System (UMS) UStage Provisioning OEMConfig UTalk 2.0 PTT platform OTA / Firmware Update Management App Market Device Productivity: ScanWedge RFIDWedge OCRWedge Key Mapping U-Browser Enterprise Launcher Diagnostics & Maintenance: Log Capture WiFi Diagnostics Smart Battery Management AI & Smart Tools: OCR Text Recognition AI Vision- Multibarcode AI Voice - Translingo/ Control
3rd Party Solutions Integration	EMM: SOTI Omnissa Workspace ONE(Airwatch) 42Gears safeUEM Industry Solutions: SAP Velocity (TE) P3finder TeamViewer

ACCESSORIES

Accessories	• RFID Sled • Single-slot charging cradle (1 DT50 device with/without rugged case & 1 spare battery charging) • Single-slot charging cradle (1 DT50 device with/without two-piece rugged case & 1 spare battery charging) • 5-slot charging cradle (5 DT50 devices with/without two-piece rugged case) • 5-slot charging cradle (4 DT50 devices without rugged case & 4 spare batteries charging) • 4-slot battery charger (4 DT50 batteries) • Trigger Handle • Standard battery(5000mAh,without fuel gauge) • High-capacity battery(5200mAh,with fuel gauge) • Rugged case • Two-piece rugged case • Glass protective film • Soft Holster • Wrist strap • Stylus • 18W(9V-2A) wall adapter + USB 2.0 Type C cable • 10W(5V/2A) wall adapter + USB 2.0 Type C cable

Industry & Applications

Retail

Pricing and stock verification
Buy Online, Pickup In-Store/Curbside fulfillment
Product location assistance
Mobile checkout and queue management
Personalized sales support
Operational task coordination
Front-of-store restocking
Price adjustment and maintenance
Regular inventory audits
Staff scheduling and oversight
Display layout management
Promotional execution monitoring
Visual merchandising
Backroom operations coordination

Field Service

Equipment tracking and maintenance
Spare parts inventory control
Mobile billing and payment processing
Appointment coordination

Postal/Delivery

Delivery confirmation and condition reporting
Vehicle and equipment tracking
Mobile invoicing and collection
Route optimization and location tracking

FOR MORE INFORMATION

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