



NLS-MT93-U

UHF PORTABLE DATA COLLECTOR

FEATURES

Industrial-grade Durability

The NLS-MT93-U's rugged housing is sealed to IP65 standards for protection against dust and water and withstands 1.5m drops to concrete.

Outstanding RFID Performance

With high-performance E710 UHF reader chip and ingenious software, the NLS-MT93-U can achieve a batch read speed of more than 900 tags/second; the reading distance can up to 12 meters.

Diverse Functionalities

Beyond the flexibility of UHF functions, the NLS-MT93-U offers Bluetooth/1D/2D/BT/WiFi/4G/functionalities to meet various application needs.

Long-lasting Battery Life

The NLS-MT93-U is equipped with a 1000mAh battery that offers a full-shift battery life of up to 10 hours on a single charge in most circumstances.



1D Barcode



2D Barcode



RFID



IP 65



Drop



WiFi



Android



GPS

NLS-MT93-U

Performance

Processor		2.2GHz, octa-core 64-bit processor, 2*A76@2.2GHz,6*A55@2GHz
Operating System		Android 13 (GMS)
Memory		4GB RAM/64GB ROM
Symbologies	2D	Aztec, Composite, CS Code, Maxicode, Micro PDF, Micro QR, PDF 417, QR Code, Data Matrix, DotCode.
	1D	Code128, Code 49, Code 16K, (GS1128) UCC/EAN-128, AIM-128, EAN-8, EAN-13, UPC-E, UPC-A, ITF, ITF 6, ITF 14, Matrix 2 of 5, Industrial 25, Standard 2 of 5, Code39, ISSN, ISBN, CodaBar, Code93, Code 11, Plessey, MSI Plessey, RSS.
Depth of Field (Depend on Barcode and Environment)	EAN-13	70mm-610mm(13mil)
	Code39	110mm-290mm(5mil)
CM66	PDF417	110mm-230mm(6.7mil)
	Data Matrix	110mm-260mm(10mil)
	QR Code	55mm-410mm(15mil)

Physical/Electrical

Dimensions (L×W×H)	168(L) × 86(W) × 149(H) mm
Weight	665g (including battery)
Display	5.5" (720×1440), multi-point capacitive touch screen with Gorilla Glass Brightness(max.400 Nits)
Keypad	Virtual on-screen buttons: Menu, Home, Back Physical buttons: Left and right Scan keys, Volume +/-, Power
Notification	Vibrator, speaker (8R,1W 10cm,103dB) and multi-color LEDs
MIC	Dual microphones, supports noise reduction
Battery	10000mAh, removable
GPS	GPS (AGPS), GLONASS, Beidou, Galileo
Sensor	Light & Proximity sensor, Gravity sensor, Gyroscope ,Electronic compass
Camera	Front camera: 5 megapixels, Rear camera: 13 megapixels, auto focus, with LED flashlight
Expansion	Micro SD Card (Maximum 256GB),2 PIN contacts support Pistol grip
Interface	USB Type-C , charging contacts on the bottom, supports headphones
Adapter	Output: DC5V/7V/9V, 2A Input: AC100-240V, 50-60Hz,18w fastcharge

UHF Performance

Read Range	>12M (Indoor); >8M (Outdoor open space) (@ Alien 9740) (Read range can be affected by tag and environment)
Write Distance	0-3m
Read Rate	≥900 tags/sec (Read rate can be affected by tags and environment)
UHF Module	Based on Impinj E710
Antenna	Circularly polarized antenna (4dBi), 5dBm-33dBm,(±1dBm) adjustable.
Frequency Range	FCC (USA): 902-928MHz ETSI (Europe): 865.6-867.6MHz SRRC-MII (China): 920-925MHz
Protocol Supported	EPC Class 1 Gen 2 (ISO 18000-6C)

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NLS-MT93-U

Environmental

Operating Temperature	-20°C to 55°C (-4°F to 131°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% (non-condensing)
Static Discharge	±15 kV (Air discharge), ±8 kV (Direct discharge)
Drop	1.5m drops to concrete (for six sides, one drop per side)
Sealing	IP65

Wireless

WLAN RADIO		Built-in 802.11 a/b/g/n/ac/ax/k/v/r, support 2.4G and 5G dual frequency
WWAN RADIO	2G	850/900/1800/1900MHz
	3G	WCDMA (B1, B2, B5, B8); CDMA: 1X EVDO (BC0);
	4G	TDD-LTE (B34, B38, B39, B40, B41) FDD-LTE (B1, B2, B3, B5, B7, B8, B20, B28 a&b)
WPAN RADIO		Bluetooth 5.2 BLE backward compatibility
SIM Card		Nano+Nano or Nano+TF

Accessory (Optional)

Battery, adapter, cable, charging cradle

[Specifications are subject to change without notice.](#)

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