



UHF RFID Reader: NR-50R

Barcode Reader: NR-50B



Android



4G



WiFi



Bluetooth



UHF



1D Barcode



2D Barcode



NFC



Camera



GPS

NR-50R은 안드로이드를 탑재한 고내구성(Rugged)의 모바일 컴퓨터로 대용량 8,000mAh 배터리와 뛰어난 UHF RFID기능을 지원합니다. Impinj사의 E710/R2000 리니어 혹은 서큘러 극성 안테나를 내장합니다. 원거리의 Tag를 대량으로 읽을 수 있어 자산관리, 도소매, 창고관리 및 차량관제 등의 업무에 활용할 수 있습니다.



NR-50R



NR-50B

제품제원

성능	
Android 8.1(단종)	
Operating System	Android 8.1; SafeUEM supported
CPU	Cortex-A53 2.5 GHz Octa-core
RAM+ROM	3 GB + 32 GB / 4 GB + 64 GB (optional)
Expansion	Supports up to 128 GB Micro SD card
Android 11	
Operating System	Android 11; GMS, FOTA, SafeUEM supported. Committed support for a future upgrade to Android 12, 13, and Android 14 pending feasibility
CPU	Cortex-A53 2.3 GHz Octa-core
RAM+ROM	3 GB + 32 GB / 4 GB + 64 GB (optional)
Expansion	Supports up to 128 GB Micro SD card
통신	
Android 8.1(단종)	
WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
Bluetooth	Bluetooth v2.1+EDR, 3.0+HS, v4.1+HS
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna
WWAN (China)	2G: 900/1800 MHz
	3G: WCDMA: B1,B8 CDMA2000 EVDO: BC0 TD-SCDMA: B34,B39
	4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
	2G: 850/900/1800/1900 MHz
WWAN (Overseas)	3G: B1,B2,B4,B5,B8
	4G: B1,B2,B3,B4,B5,B7,B8,B12,B17,B20,B25,B40,B66
Android 11	
WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
Bluetooth	Bluetooth 5.0
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna
WWAN	2G: GSM850/GSM900/DCS1800/PCS1900
	3G: WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BC0 TD-SCDMA: A/F
	4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B34/B38/B39/B40/B41
물리적 특성	
Dimensions	164.2 x 80.0 x 24.3 mm / 6.46 x 3.15 x 0.96 in.
Weight	654 g / 23.07 oz.
Display	5.2" IPS LTPS 1920 x 1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Li-ion, rechargeable, 8000 mAh
	Standby: over 500 hours
	Continuous use: over 12 hours (depending on user environment)
	Charging time: 3-4 hours (with standard adaptor and USB cable)
Expansion Slot	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
Interfaces	USB 2.0 Type-C, OTG, TypeC headphones supported
Audio	Speaker, 2 microphones

Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
Sensors	Light sensor, proximity sensor, gravity sensor

사용 환경	
Operating Temp.	-4 °F to 122 °F / -20 °C to 50 °C
Storage Temp.	-40 °F to 158 °F / -40 °C to 70 °C
Humidity	5% RH - 95% RH non condensing
Drop Specification	Multiple 1.5 m / 4.9 ft. drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5 m / 1.64 ft. falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15 KV air discharge, ±6 KV conductive discharge

개발 환경	
SDK	Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

Data Collection	
Camera	
Camera	13 MP Autofocus with flash
RFID (NR-50R)	
UHF	
Engine	Based on Impinj E710 / R2000
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (4dBi), linear polarization(1.8dBi)
Power	1 W (30 dBm, +5 dBm to +30 dBm adjustable)
	2 W Optional (33 dBm, for Latin America, etc.)
R/W range	Up to 15 m (circular polarization, open outdoors, Impinj MR6 tag); up to 7 m (linear polarization, open outdoors)
Fastest Read Rate	900+ tags/sec (circular polarization)

* Ranges and rates depend on tags and environment

Barcode Scanning (NR-50B)	
1D Linear Scanner	Zebra: SE965; Honeywell: N4313
1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Imager Scanner	Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603
2D Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

NFC	
Frequency	13.56 MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4 cm

Accessories	
Standard	AC Adaptor, USB Cable, etc.
Optional	Cradle, Holster, etc.

* 자세한 내용은 Accessory Guide를 참고하세요.



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