



Overview:

NephSystem Technologies NSAR-810 IP67 rated and industrial grade tablet uses quad core 1.2 GHz CPU with internal 2G RAM, 16G Flash memory. It is running at Android 5.1 Operating System and integrates with most of peripherals all together including 2.45GHz active RFID module, 3.5mm audio interface, gravity sensor, digital compass, fingerprint identification scanner, vibrating motor, Bluetooth, GPS module, camera, Wi-Fi, 3G/4G/LTE as well as other optional features such as 1D/2D barcode scanner, etc.

NSAR-810 tablet computing system also features long battery life, drop resistance (up to 1.2 meters on concrete) and sunlight viewable LCD screen. With its internal and powerful NephSystem NSAR 2.45GHz active RFID engine, it can easily detect any NephSystem NSAT series active tags from up to 50 meters distance at a very high reading throughput (up to 200 simultaneous tag detections per second). NSAR-810 could be widely used in mobile informatization projects of various industries, for example Logistics System Management, Medical Treatment, Digital Warehouse Management, Assets Management, People Tracking, Children Safety and School Bus Tracking Solution, Bus Safety System, and other fields.

Main Features:

- ❖ All in one rugged design
- ❖ Android Operation system with Quad core 1.2 GHz CPU And 2G RAM
- ❖ 7-inch LCD screen, 1280x800 IPS capacitive touch screen
- ❖ Built in WIFI, Bluetooth, 4G, LTE, GPS, Camera
- ❖ Optional 1D/2D barcode scanner
- ❖ Reading distance up to 50 meters With NSAT series active tags
- ❖ Completely water/Dust proof, IP67 rated Drop resistance from 1.2m
- ❖ CE/FCC/RoHS Certified
- ❖ Free SDK and demo utility



Specifications:

General	
Operation System	Android 5.1
CPU	MSM8916, A53, 4 core CPU @1.2GHz
Memory	2G RAM, 16G FLASH
Extended Storage	Micro SD, Maximum 32G Supported
Wireless Communication	WIFI, Bluetooth, GPS Module, 4G, LTE
Touch Screen	7-inch sunlight viewable, 1280x800 IPS capacitive LCD touch screen
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NephSystem Technologies

Delta BC, Canada

Phone: +1 604-9489063 Fax: +1 604-9489607

www.nephsystem.com

sales@nephsystem.com

NephSystem NSAR-810 Active RFID Android Rugged Tablet



Camera	2 million pixels front camera, 8 million pixels rear camera with automatic focus and lighting function
1D/2D Barcode Scanner	Optional
Other I/O Interfaces	OTG (Could be used for U-disk/Mouse/Keyboard/USB Ethernet cable/ extend RS232 serial port); 3.5mm headphone Port, Charging Port
Wireless Communication	
3G/4G/LTE	FDD/WCDMA/GSM; LTE_FDD B1/B3/B7 LTE_TDD B41/B40; WCDMA B1//B2/B5; GSM 900/1800/1900, etc.
Bluetooth	4.0
Wi-Fi	IEEE 802.11b/g/n
GPS	Built-in
RFID Scanner	
RFID Operating Frequency	2.4-2.5Ghz frequency band
Internal Antenna Gain	3dBi
Tag Reading Range	Up to 50 Meters with NSAT series active tags
Reading Range Adjustment	Yes, through the software
RFID tag Writing Capability	Yes, with special writable NSAT tags
Physical Parameters	
Dimensions	209mm*139mm*19mm
Weight	600g (with battery)
Rechargeable Lithium Battery	3.7V, 7000mAh
Standby Current	less than 10mA
IP Rating	IP67 three protection grade, drop resistance from 1.2m
Humidity	5%RH ~ 95%RH (non-Condensing)
Working Temperature	-20°C~+50°C
Storage Temperature	-40°C ~+ 60°C



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