NephSystem N280 RFID Barcode Android Rugged Tablet

Overview:

NephSystem Technologies N280 IP67 rated and industrial grade Android 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 125KHz Low Frequency RFID module, 134.2KHz Low Frequency RFID module, 13.56MHz (ISO14443 / ISO15693) High Frequency RFID module, NFC, 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.

N280 Ruggedized tablet computing system also features super long battery life (powered by its internal 7200 mAh battery), drop resistance (up to 1.2 meters on concrete) and sunlight viewable LCD screen. With its internal and powerful UHF Gen-2 860MHz ~ 960MHz RFID engine, it can easily detect any compatible UHF Gen-2 tags from up to 10 meters (about 30 feet) distance at a very high reading throughput. N280 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
❖ Built in 1D/2D barcode scanner
❖ Reading distance up to 10 meters w/ UHF Gen 2 RFID 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, Cortex 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
Camera	2 million pixels front camera, 8 million pixels rear camera with automatic focus and lighting function
1D/2D Barcode Scanner	Built-in
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	
Fully Support 3G/4G/LTE	2G: GSM 900/1800/1900 B2/B3/B8 3G: WCDMA: 850/1900/2100 B1/B2/B5 4G: LTE_ FDD: 1800/2100/2600 B1/B3/B7 LTE_TDD :2555-2655MHz/:2300-2400MHz B41/B40
Bluetooth	4.0
Wi-Fi	IEEE 802.11b/g/n
GPS	Built-in
Headset	3.5mm audio Jacket
Gravity Sensor	Built-in
Compass	Built-in
Vibrating Motor	Built-in
Optional Fingerprint Module	
Optional Far infrared Module	

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RFID Scanner				
RFID Operating Frequency	125KHz Low Frequency RFID	134.2KHz Low Frequency RFID	13.56MHz High Frequency RFID	860M~960MHz UHF Gen 2 RFID
RFID Protocols	All EM / TK, etc.	ISO11784/5, etc.	ISO/IEC 15693, ISO/IEC 14443A/B/C, SR176, SRIX4K (TYPE-B), I-Code2, TI RFID label-it HF-I, EM4034, Mifare, Desfire, Ultralight-C, etc.	EPC C1 GEN2/ISO 18000-6C
Internal Antenna Design	Yes	Yes	Yes	Yes
RF Power Output	N/A	N/A	N/A	10 ~ 30dBm
Tag Reading Range (Tag Dependent)	Typical 5-8cm	Typical 4-7cm	Less than 9cm	More than 10 meters
Reading Range Adjustment	N/A	N/A	N/A	Through Software
Physical Parameters				
Dimensions	209mm*139mm*19mm			
Weight	600g (with battery)			
Rechargeable Lithium Battery	3.7V, 7200mAh			
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			
Certificate	CE/RoHS/FCC			
Environment Test	MIL-STE-810G			

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