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**NCTS-PD3W**

NCTS-PD3W is a new mobile computer developed by NEW COMPUTER TECHNOLOGY SYSTEMS. for mobile field service. It is designed to connect your mobile workforce to the enterprise for real-time access to business information and data exchange.

Adopting Android 6.0 operating system, the NCTS-PDA3W provides user friendly operation interface, supports versatile functions like 1D/2D barcode scanning, RFID tag reading, infrared communication modules, photographing, GPS, voice communication, and Wi-Fi, NFC and is widely used in various fields, such as, logistics, retail management, meter reading, goods tracking, warehousing, meeting ticketing, and tracing management.

Featuring high performance and high reliability, the NCTS-PD3W can help enterprises boost productivity and gain a higher return on investment.

**Five Strengths**

* **Advanced configuration**
* Android 6.0 operating system for more compatibility and better user experience.
* High performance dual-core 1.3GHz processor and 8GB ROM+1GB RAM memory providing higher running speed.
* **Industrial-grade capacitive touch panel**
* Industrial-grade capacitive touch panel for easy operation and higher flexibility.
* Equipped with a 3.5-inch (640 x 960 pixels) display screen.
* **Powerful data collection**
* Equipped with advanced scanning engines to read not only 1D/2D barcodes normally printed on traditional media, stained, or covered with plastic film but also barcodes displayed on mobile phones and computer screens.
* Exit window made of Corning® Gorilla® glass for a better scratch-resistance, a higher light transmittance, and more quick and accurate scanning.
* Equipped with built-in RFID read/write modules to quickly and accurately read RFID tags in batches.
* **Multiple wireless communication modes**
* Supporting multiple wireless communication modes such as WCDMA, GPRS and GSM in a wide area network (WAN).
* Supporting Wi-Fi transmission in a local area network (LAN).
* Supporting a high performance GPS/AGPS navigation chip for more accurate positioning.
* **Rugged and reliable mobile computer**
* Shell molded at one step using PC engineering plastics of General Electric Company.
* Meeting IP65 sealing standard for superior dustproof and waterproof performance.
* Meeting the 1.5-meter drop specification and the 0.5-meter tumble specification (500 tumbles).
* Keys designed with the IMD film printing technology for scratch-resistance and a longer service life.

**Technical Specifications**

* **System Configuration**

|  |  |
| --- | --- |
| CPU | High-performance 1.3GHz quad-core processor |
| Operating System | Android 6.0 |
| Memory | 8 GB ROM+1 GB RAM |
| Expansion Slot | Micro SD card, up to 32 GB, Micro SD slot |
| Display | 3.5-inch (640x960) |
| Touch Panel | Industrial-grade capacitive touch panel |
| Camera (Optional) | 8 Mega pixel , autofocus lens, LED flash |
| Exit Window | Corning® Gorilla®  glass |
| Keypad | 28-key durable industrial keypad with interior transmission light |
| Battery | 3.7 V 4000 mAh rechargeable lithium polymer battery  (6000 mAh battery optional) |
| Audio | Built-in microphone |
| Notification | Vibrator alerts/LED/Audio notification |
| Vibration Motor | Built-in programmable vibration motor |

* **Operating Environment**

|  |  |
| --- | --- |
| Development Tools | Android SDK+JDK+Eclipse |
| Programming Language | Java, C |
| Management Tools | WINSON tools |
| Operating Temp. | -10℃ to 50℃ (14℉ to 122℉) |
| Storage Temp. | -20℃ to 60℃ (-4℉ to 140℉) |
| Relative Humidity | 0 to 95% (non-condensing) |
| Drop Specification | 1.5-meter drops to concrete ground |
| Tumble Specification | 500 0.5-m tumbles (1000 hits) |
| Sealing | IP65 |
| Electrostatic Discharge | Conforms to ± 15 kV air discharge, ± 8 kV direct discharge |

* **Structural Parameters**

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| --- | --- |
| Dimensions (LxWxD) | 152 mm x 68 mm x 24 mm |
| Weight | 255 g (standard battery included) |

* **Communication Transmission**

|  |  |
| --- | --- |
| Wireless Voice Communication | 4G: TDD-LTE：B38/B39/B40/B41；FDD-LTE：B1/B3  3G: WCDMA: 2100MHZ, EVDO 800 MHz, TD-SCDMA:B34/39  2G: GSM/GPRS: 850/900/1800/1900 MHz |
| Wireless WAN | GPRS/EDGE/ HSPA+/ EVDO /TDD-LTE/ FDD-LTE |
| Wireless LAN | Wi-Fi 802.11a/b/g/n |
| GPS | High performance GPS / AGPS navigation chip |

* **Input/output Prots**

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| --- | --- |
| USB Port | 1 ( Micro USB port) |
| Charger Port | 1(Charging interface at the bottom) |

* **1D Laser Scanner**

|  |  |
| --- | --- |
| Optical Resolution | ≥ 4 mil |
| Scan Depth of Field | 3.81 cm - 60.98 cm |
| Scan Angle | 47°± 3° (Standard) |
| Scan Speed | 102 ± 12 scans/sec. (Bidirectional) |

* **1D Linear Imager**

|  |  |
| --- | --- |
| Reading Mode | CCD |
| Reading Accuracy | ≥ 4 mil |
| Decoding Speed | 300 times/sec. (Max.) |

* **2D Area Imager**

|  |  |
| --- | --- |
| Optical Resolution | ≥ 3 mil |
| Scan Angle | Omnidirectional |
| Scan Speed | 300 scans/sec. |

* **RFID**

|  |  |
| --- | --- |
| Frequency | 13.56 MHz |
| Reading Distance | Within 50 mm |
| Protocol | ISO14443A(B)/15693 |

* **Accessories**

|  |  |
| --- | --- |
| Standard | Battery, Hand strap, Wrist strap |
| Optional | Power adapter, USB cable, Bottom charging cable , Single cradle, 4-slot battery charger, Silicon case |

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