**Overview**

Rider Plus is a compact 3.5” TFT display Handheld computer with integrated printer. Its open source Linux OS helps in rapid deployment of custom applications. The terminal can be equipped with integrated wireless features such as GSM, GPRS, WLAN and 3G. The printer options for the device include 2”/3” Thermal and 2” Impact. It can be customized with various add-ons such as fingerprint sensor, contact/contactless card reader, camera, GPS, RFID and 1D/2D Barcode scanner. This rugged device can be deployed virtually for many applications in the field and its long battery life enhances usability.

**Features**

* Compact, Low cost, Rugged & IP 51 compliant
* High speed ARM Cortex A9 Processor @1GMHz/ ARM Cortex A7 Processor @900MHz
* Linux Operating System
* 3.5” QVGA TFT Display with Touch Panel
* Integrated GSM/GPRS/3G/WLAN
* Integrated 2” Thermal/ 2” Impact/ 3” Thermal
* Custom features – Finger print sensor, Camera, GPS, RFID, 1D/2D Barcode scanner

**Application Areas**

* Ticketing & Spot Billing applications
* Authentication applications
* Micro ATMs
* Customized applications

**Available Models**

* Rider Plus 2” Impact with ARM Cortex A9 Processor
* Rider Plus 2” Thermal with ARM Cortex A9/A7 Processor
* Rider Plus 3” Thermal with ARM Cortex A9 Processor

**Technical Specifications for Rider Plus with ARM Cortex A9**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Processor | CPU | ARM Cortex A9 |
| Speed | 1 GHz |
| C:\Users\Aamani\Downloads\2-OperatingSystem.png | Operating System | OS | Linux |
| C:\Users\Aamani\Downloads\3-Memory.png | Memory | RAM | 512 MB/ 1 GB |
| Flash | 8 GB |
| Expandable | SD card up to 32 GB |
| C:\Users\Aamani\Downloads\4-CommunicationPort.png | Communication Ports | USB | USB 2.0 OTG |
| Other | 10/100 Ethernet |
| C:\Users\Aamani\Downloads\5-Wireless.png | Wireless Connectivity | WLAN | 2.4G, IEEE 802.11 b/g/n |
| Connectivity | GSM/GPRS/3G |
| Bluetooth | V4.0 |
| C:\Users\Aamani\Downloads\6-Power.png | Power | Battery | Rechargeable Li-Ion 7.4V/2600mAh |
| External Adapter | 5V/2A, USB Charging |
| C:\Users\Aamani\Downloads\7-DisplayKeypad.png | Display & Keypad | Display type & size | 3.5” QVGA TFT w/Touch Panel |
| Keypad | 30 keys alpha-numeric/ 45 keys QWERTY |
| C:\Users\Aamani\Downloads\8-Optional.png | Optional Peripherals | Camera | 5MP Auto Focus |
| Location | GPS, GLONASS |
| Identification | STQC certified FPS |
| Other | RFID, 1D/2D Barcode scanner |
| C:\Users\Aamani\Downloads\9-Dimensions.png | Dimensions | H x W x D in mm | 242 x 108 x 32 (Impact printer)  230 x 88 x 32 (Thermal printer) |
| C:\Users\Aamani\Downloads\10-Operating.png | Operating Conditions | Operating Temperature | 0°C - 50°C |
| Relative Humidity | 5-95% (Non-condensing) |

**Technical Specifications for Rider Plus with ARM Cortex A7**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Processor | CPU | ARM Cortex A7 |
| Speed | 900 MHz |
| C:\Users\Aamani\Downloads\2-OperatingSystem.png | Operating System | OS | Linux |
| C:\Users\Aamani\Downloads\3-Memory.png | Memory | RAM | 256 MB/ 512 GB |
| Flash | 8 GB |
| Expandable | SD card up to 16 GB |
| C:\Users\Aamani\Downloads\4-CommunicationPort.png | Communication Ports | USB | USB 2.0 |
| Other | RS232 (RJ11) optional |
| C:\Users\Aamani\Downloads\5-Wireless.png | Wireless Connectivity | WLAN | 2.4G, IEEE 802.11 b/g/n |
| Connectivity | GSM/GPRS/3G |
| Bluetooth | V4.0 |
| C:\Users\Aamani\Downloads\6-Power.png | Power | Battery | Rechargeable Li-Ion 2600mAh |
| External Adapter | 10V/1A |
| C:\Users\Aamani\Downloads\7-DisplayKeypad.png | Display & Keypad | Display type & size | 3.5” QVGA TFT w/Touch Panel |
| Keypad | 30 keys alpha-numeric/ 45 keys QWERTY |
| C:\Users\Aamani\Downloads\8-Optional.png | Optional Peripherals | Camera | 5MP Auto Focus |
| Location | GPS, GLONASS |
| Identification | STQC certified FPS |
| Other | RFID, 1D/2D Barcode scanner |
| C:\Users\Aamani\Downloads\9-Dimensions.png | Dimensions | H x W x D in mm | 242 x 108 x 32 (Impact printer)  230 x 88 x 32 (Thermal printer) |
| C:\Users\Aamani\Downloads\10-Operating.png | Operating Conditions | Operating Temperature | 0°C - 50°C |
| Relative Humidity | 5-95% (Non-condensing) |

**Printer Specifications**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2” Thermal | 3” Thermal | 2” Impact |
| Print Type | Thermo Sensitive | Thermo Sensitive | Impact with ribbon |
| Paper Width | 58 mm | 72 mm | 57 mm |
| Dot Size | 0.125 x 0.125 | 0.125 x 0.125 | - |
| DPI | 203 | 203 | - |
| Print Speed | 60 mm/sec | 50 mm/sec | 2.7 lines/sec |
| Resolution | 384 dots/line | 576 dots/line | 144 dots/line |