Innovation in Emerging Markets

Microfinance is an emerging business in many developing countries with numerous economical and social benefits. However, the business penetration was being limited for geographical locations of customers with majorities being in village or rural area, where the proof of identities had become a restrictive issue. Specially engineered to cater the said issues, Positron Fingerprint GPRS terminal will be your ideal solution for various financial applications where mobility and user authentication are the keys.

Taking it to a higher level

Dedicate to make better products, help customers to remain competitive. Positron Fingerprint Terminal is great example of excellence, set to bring the ease of transaction to the next level with even higher security feature.

Peace of mind security

Fingerprint authentication protects merchants and customers from commercial frauds. Fast encryption makes transactions smooth, while a range of ANSI compliance ensures security.

Positron Fingerprint Terminal is secure with:

- Fast encryption
- DUKPT key management
- PCI PED compliant
- CMOS active-capacitive fingerprint reader pixel-sensing technology

The legacy of the greatest

Continued with the reputed features of Positron, including but not limited to lightweight, ergonomic, heavy-duty, user-friendly with enhanced mobility and durability, the new Positron Fingerprint GPRS Terminal has included the latest and state-of-the-art security features for fraud eliminations, ensuring safest transactions and other value-added services.

With the ultra-high battery capacity and compatibility with various communication protocols – GPRS (standard), CDMA, Ethernet, Wi-Fi, Sync & Async PSTN (optional), Positron Fingerprint Mobile Terminal is your ideal mobile commerce device. With the fingerprint authentication and the matching algorithm, the device exceeds the strictest global security and communication standards. External connectivity via RS232 may also be used to interface with accessories and peripherals such as barcode scanner, external keypad or keyboard, optical mark reader, etc. With the flexible modular design, upgrade from standard version to the new fingerprint version is possible.

Other features:

- Powerful all-in-one device equipped with both magnetic stripe and EMV smart card readers.
- Quiet, high-speed and easy-loading thermal printer
- Large, easy to read backlit graphical LCD display with 240 x 160 pixels resolution
- Ultra-high capacity 2,600mAh Li-ion battery
- White LED backlit secure PIN pad
- 17 programmable keys and 4-direction navigation key
- 16MB NOR Flash and 16MB SDRAM (expandable to 32MB)
- Up to 4 SAM slots available (2 async + 2 sync/async)
### Specifications

**Dimension**
- 220mm (L) x 115mm (W) x 65 (H)

**Weight**
- 655g

**Working environment**
- Operating Temperature: 0°C to 50°C
- Storage Temperature: -18°C to 66°C
- Operating Humidity: 0% to 90%, non-condensing

**Display**
- White LED backlight graphical LCD 240 x 160 pixels

**CPU**
- USIP – secure 32-bit RISC – processor

**Keypad**
- White LED backlight secure PIN Pad
- 17 programmable keys
- 4-direction navigation key

**SAM**
- Up to 4 SAM slots (2 sync/async and 2 async)

**Memory**
- 16 MB (Up to 32MB) NOR Flash
- 16 MB (Up to 32MB) SDRAM
- 2 MB Battery backup SRAM

**Communication**
- Tri band GSM/GPRS: 900/1800/1900 MHz
- RS-232 with additional 5V power pin
- USB OTG

**Security**
- Encryption: Fast encryption
- PCI PED certified

**Operating system**
- Embedded Environment: Nucleus RTOS, C++ programmable

**Battery**
- 2600 mAh, 7.2V Li-ion

**Smart Card Reader**
- ISO7816
- EMV Level 1 and Level 2 Certified

**MSR**
- ISO7811/7812
- Track 1, 2 & 3
- Bi-directional swipe

**Printer**
- Easy-loading thermal printer
- Speed: Up to 90mm/sec printing speed
- Paper Roll: 57mm width, 38mm diameter

**Fingerprint Module**
- CMOS active-capacitive pixel-sensing technology
- 14.4mm x 10.4mm sensor surface
- 208 x 288 sensor array format
- Ultra-tough black steel protect coating on sensor surface
- Grayscale image depth: Full 8-bit
- Resolution 508dpi
- Biometric matching algorithm

**Accessories (Optional)**
- Privacy Shield
- Handset free kit
- Handset kit
- Durable carrying case
- In-vehicle cigarette lighter charger
- RS-232 cable
- USB cable
- Separate Charger
- Wall mount
- Barcode scanner
- Optical mark reader
- External impact printer
- External GPS
- Communication Module

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