



## Photon Wireless Terminal



# photon

Seamless Handheld to maximize your business performance

Designed to elevate our customers' business competence, Photon is a lightweight, wireless handheld POS terminal that is capable to serve the needs of the dynamic worldwide market. Unveiled with its ergonomic features, Photon strives to ease business transaction burden with seamless security, reliable functionalities and configurable modules for sustainable business needs.

### Seamless Security assured

Competent as the other M.POS proprietary terminals, Photon is accredited to the strictest international bank security standards with PCI PED and EMV certified which help assure secure data management and fast encryption to maximize your business efficiency. Optional built-in fingerprint reader with matching algorithm offers enhanced security.

### Ergonomic, complexity support

Photon's reliable infrastructure and lightweight design has enabled ease of transactions, optimized efficiency in a time-saving and cost-effective manner. Most important of all, Photon offers a wide range of connectivity supports which include GPRS, Wi-Fi, PSTN, CDMA and Ethernet.

### Elevating your business competence

Alongside with the demand of sustainable business, Photon is readily extendable to integrate with other optional M.POS payment modules offered by our M.Gate comprehensive centralized platform.

### Key features

- PCI PED 2.x Certified
- EMV4.2 Level 1, Level 2 Certified
- User-friendly Interface, lightweight
- Meet the strictest global security and communications standards
- Memory: 32MB Flash, 32MB SDRAM
- Magnetic card reader: Track1/2/3 (ISO7812)
- Communication: GPRS Quad Band(Standard)
- Optional secondary Wi-Fi or PSTN modem of your choice
- Operating system: Linux
- Fingerprint reader with matching algorithm (Optional)
- Contactless Card Reader (Optional)



Global Payment Terminal Provider



## Specifications

<b>Dimension</b>	<ul style="list-style-type: none"> <li>• 180mm (L) x 90mm (W) x 72mm (H)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>• 0.53kg</li> </ul>
<b>Working environment</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: 0°C to 40°C</li> <li>• Operating Humidity: 5% to 90% , non-condensing</li> <li>• Storage Temperature: -20°C to 70°C</li> <li>• Storage Humidity: 5% to 90% , non-condensing</li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>• Mono color backlight graphical LCD 128 x 64 pixels</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>• 32-bit Ultra High Speed Secure CPU, 192MHz processor</li> </ul>
<b>Keypad</b>	<ul style="list-style-type: none"> <li>• Built-in Pin pad, 21 keys</li> </ul>
<b>Slots</b>	<ul style="list-style-type: none"> <li>• 2 SIM, 2 PSAM, Micro SD (1 SIM, 3 PSAM Optional)</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 32MB Flash</li> <li>• 32MB SDRAM</li> </ul>
<b>Communication / Connectivity</b>	<ul style="list-style-type: none"> <li>• GPRS Quad Band(Standard)</li> <li>• *Optional Wi-Fi / PSTN / CDMA / 3G / Ethernet</li> </ul>
<b>Peripheral Ports</b>	<ul style="list-style-type: none"> <li>• USB OTG and RS232</li> <li>• Ethernet (Optional)</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Encryption: Fast encryption</li> <li>• DES: compliant with ANSI X3.92, X3.106, X9.8, X9.9, X9.17, X9.19, X9.24</li> <li>• RSA</li> <li>• PCI PED 2.x Certified</li> </ul>
<b>Operating system</b>	<ul style="list-style-type: none"> <li>• Linux</li> </ul>
<b>Battery</b>	<ul style="list-style-type: none"> <li>• Li-Polymer 2500mAh, 7.4V</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• Input: 100-240VAC, 50Hz/60Hz, 1.0A</li> <li>• Output: 9.0VDC, 4.0A</li> </ul>
<b>Smart Card Reader</b>	<ul style="list-style-type: none"> <li>• EMV 4.2 Level 1 and Level 2 Certified</li> </ul>
<b>Antenna</b>	<ul style="list-style-type: none"> <li>• Internal</li> </ul>
<b>MSR</b>	<ul style="list-style-type: none"> <li>• ISO7812</li> <li>• Track 1, 2 &amp; 3</li> </ul>
<b>Contactless Card Reader (Optional)</b>	<ul style="list-style-type: none"> <li>• ISO/IEC 14443 Type A/B compliance, MIFARE compliance/13.56MHz</li> </ul>
<b>Printer</b>	<ul style="list-style-type: none"> <li>• Easy-loading thermal printer</li> <li>• Speed: Up to 15 lines/sec printing speed</li> <li>• Paper Roll: 57mm width, 38mm diameter</li> </ul>
<b>Fingerprint Module (Optional)</b>	<ul style="list-style-type: none"> <li>• Active-capacitive pixel-sensing technology</li> <li>• 18.0mm x 12.8mm sensor surface</li> <li>• 256 x 360 sensors array format</li> <li>• Protective coating</li> <li>• 8 bit Microprocessor (RAM) Interface</li> <li>• Resolution 508 dpi , 8 bits per pixel</li> <li>• Biometric matching algorithm</li> </ul>
<b>Accessories (Optional)</b>	<ul style="list-style-type: none"> <li>• Barcode scanner (1D or 2D)</li> <li>• Optical mark reader</li> <li>• In-vehicle cigarette lighter charger</li> <li>• USB cable</li> <li>• External GPS</li> </ul>



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