

Always charge the battery at temperatures between 0° and 45°C (32°F - 113°F).

It is important to perform the full battery charge before using i7810 for the first time – charge the battery without interruptions until i7810 terminal indicates the end of charging process (no moving bars on the battery status icon).

To prolong battery life:

- Avoid frequent full discharges. Shallow (partial) discharges and often charges are preferred. Full discharge and charge is recommended after every 30-40 short charge/discharge cycles.
- Protect batteries from high temperatures (for example, avoid leaving them in a vehicle on a hot summer day).

To charge the battery:

Place i7810 on the base (the base must be powered up).





Do not place battery on the base by itself, the battery must be charged while installed in i7810.

Ensure that i7810 is seated securely on the base.

Use the power adapter supplied with i7810. Many adapters can appear similar and will plug into the base but will not work properly causing erratic behavior, poor charging or even damage to the unit.

The i7810 with a fully charged battery can perform up to 200 transactions (**depending of the ticket size, transaction duration, time between transactions and backlight usage**).

The battery status is updated on the i7810 display (the indicator depends of the application):

- | | |
|---|---|
|  | 1 bar represents 25 % of full capacity, |
|  | 2 bars represent 50 % of full capacity, |
|  | 3 bars represent 75 % of full capacity, |
|  | 4 bars represent full capacity. |

Moving bars indicate that the battery is being charged.

- Do not short-circuit batteries.
- Do not open or alter batteries' outside structure.
- Do not expose battery to fire, do not heat it.
- Do not expose battery to liquid, do not freeze it.

Store batteries at 40% charge level in a cool and dry area. The recommended storage temperature is 15°C (59°F). Re-charge them to 40% every 4 months.

3.5. Connections:

Turn the terminal off before connecting peripherals.

- Connections on the i7810 hand-held:




RS-232 port

Connect LinkBox or ComBox to the RS-232 port, the letters "TOP" on a connector must be facing up. The green light (LinkBox only) indicates modem is ready. The light becomes red while dial connection is used.



LinkBox provides dial connection (asynchronous and synchronous, V22bis or V34) and powered RS-232 port. ComBox provides two RS-232 ports, one of them powered (port marked **RS232-2**).



- Connections on the base:
Plug the power adapter radial jack into the base port marked . The green light on the front right hand side of the base indicates the power is on.
Attach the cable securing plate and fix it with a screw.



4. Normal Operation:

Depending of the application installed in the terminal, i7810 displays icons indicating:

- Battery charge level.
- Charging status.
- Received signal strength.

Depending of the application, i7810 goes into stand-by mode after a period of inactivity (in order to prolong battery life). i7810 can be powered up by pressing the green <ENTER> key.

5. Technical specifications:

The i7810 communication is based on 802.11b standard, protected by 128-WEP or WPA security.
Type.....20 dBm hopping frequency
BandwidthISM 2.45 GHz
Emitting power≤ 100mW (20dBm)
Range.....≈ 200 meters or 650 feet (open range)

The power supply:

- INPUT AC 120V 60Hz
- OUTPUT DC 18V 0.9A 16.2VA



6. Cleaning procedure:

- The i7810 must be off for all cleaning operations.
- Do not clean the i7810 with water but with a dry or only slightly damp cloth.
- Do not use solvent, detergent or abrasive products.

If the terminal has battery charge problem, clean the contacts on the battery and on the terminal with a damp cloth. Do not scratch or scrape the surface of the contacts.

- If the print quality deteriorates, clean the print head to remove accumulated paper dust. The print head must be cleaned with the terminal powered off, using ethanol applied on a lint-free cloth.
Be aware of the sharp paper cutter and hot printer parts. Ensure that the ethanol has completely evaporated before switching the terminal back on.

7. Customer support and return materials authorizations contact:

24-Hour North American Customer Support:

Tel: 888.900.8221 Fax: 905.795.9343
customersfirst.us@ingenico.com

Customer Service Centers:

In Canada: 6195 Shiloh Road, Suite D, Alpharetta, GA 30005
6520 Gottardo Court
Mississauga, Ontario, L5T 2A2

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interferences to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Ingenico is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure Warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device must be operated with minimum 20 cm spacing between the antennas and all person's body (excluding extremities of hands, wrist and feet) during wireless mode of operation. Further, this transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This device and its antenna must not be co-located or operating with any other antenna or transmitter except Grant condition. Users are not permitted to modify this transmitter device. Any unauthorized change made to this device could void your authority to operate this device.



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i7810 Installation Guide



DIV450011A 430075

1. Ingenico i7810 description:

The i7810 is a portable, wireless Wi-Fi point of sale electronic payment terminal designed to process debit, credit and smart card purchases. It is highly secured, EMV level 1 and 2 certified. The i7810 enables perfect integration of the payment system into the WLAN.

The i7810 provides fast service, long life battery, convenience, flexibility and security powered by Ingenico's High Security Core and UNICAPT™. The Wi-Fi communications are fully protected by 128-WEP or WPA security. i7810 includes large graphic display and easy loading printer.

Various peripherals can be connected to i7810 via ComBox and LinkBox.



1.1. Display:

A 4 line x 16 character LCD graphic display, with a backlight.

1.2. Keypad:

18 keys, with a backlight. The special function keys are:

- Three programmable function keys for navigation and access to various i7810 functions and the system and application menus.
- Paper Feed key is used for a printer paper feed (a few cm).
- The green <ENTER> key confirms the data entered or displayed. It also powers on the i7810.
- The red <Cancel> key cancels the current function and returns the terminal to the idle state. It also powers off the i7810 if it is not connected to the power supply (it depends of the application running on i7810).
- The yellow <Clear> key corrects invalid data entry.
- The blue <Admin> key is used to access the terminal administration function menu.

1.3. Magnetic Stripe Card Reader:

The i7810 features a bi-directional, 3-track reader located on the right-hand side. The card can be swiped from the bottom to the top, or from the top to the bottom. The magnetic stripe on the card has to face down and point toward the keypad. The card has to be swiped at uniform speed and pressure, ensuring that the card remains in contact with the bottom of the track throughout the entire swipe action.

1.4. Smart Card Reader:

Insert the smart card horizontally into the slot on the front of the i7810, the microchip facing up, and leave it in the reader throughout the transaction.

The i7810 has EMV level 1&2 approvals and complies with the ISO 7816, Sync and Async T=1 & T=0.

1.5. Printer:

The i7810 integrates a quiet, high speed, "easy-load" style thermal printer with graphics capability.

1.6. Battery:

Rechargeable and easily replaceable Li-Ion battery pack.

1.7. SAM Connectors:

SAM card connector is located underneath the i7810 battery. The SAM (Secure Access Module) supports smart card chips necessary for applications such as loyalty.

2. Ingenico 7810 Packaging Content:

1. i7810 terminal.
2. Li-Ion battery pack.
3. Thermal printer paper, one roll.
4. The charging base and power supply.
5. The cable securing plate and a screw.
6. LinkBox and phone cable (optional).
7. ComBox (optional).
8. This installation guide.

3. i7810 Installation:

Place the base on a clear, flat surface near an electrical and telephone sockets (for an optional back-up dial connection). The i7810 hand-held and the base must be protected from high temperature, vibrations, dust, dampness and electromagnetic radiation (computer screen, microwave oven, anti-theft barrier etc.). Equipment such as cordless phones, cellular phones and Bluetooth devices can emit harmonics that could disturb the terminal at 2.45 GHz.

Avoid using i7810 near a great vertical metal plane (doors of refrigerator, large home appliances, vending machines), they reduce the working range.

Ensure the base or the terminal is more than 3 m (around 10 feet) from any microwave oven in use.

Do not place i7810 on a metal surface.

Do not put your hand under the printer during communication as the range is greatly reduced.

Ensure that the terminal is seated securely on the base.

Before terminal can be used, the paper roll has to be installed and battery has to be fully charged.

Operating temperature +5°C to +40°C (41°F to 104°F)

Humidity 20% to 90% without condensation

Storage temperature -10°C to +60°C (14°F to 140°F)

3.1. Installing/Replacing the Printer Paper

When the colored stripe on the paper appears, replace the paper:

Turn OFF the i7810 before replacing paper roll.
DO NOT touch the printer parts, they can be very hot. Be aware of the sharp paper cutter.

1. Push the button on the paper compartment cover toward the back and lift the cover.
2. Remove the empty paper roll and insert the new roll. Ensure that the paper is protruding from UNDERNEATH the paper roll:



3. Close the cover, press it until it snaps. Press the "Paper feed" key to verify that paper feeds properly.

Thermal Paper Specification:

- Single ply thermal sensitive – POS or facsimile grade.
- Basis Weight: (lb/rm 17 ins. X 22 ins. - 500) --- 14.5 ± 5% (GSM) --- 55 ± 5%
- Caliper..... 2.4 ± 0.2 Mills or 60 ± 5 Microns
- BrightnessMin. 85%
- Smoothness (Bekk Minimum) 300 s
- Roll Width..... 2.28 ± 0.040 in (58 mm ± 1.0 mm)
- Roll Diameter..... 1.97 in (50 mm) maximum
- Roll Core ID..... 0.500 in (13 mm) nominal
- Roll Core OD 0.625 in (16 mm) nominal

Recommended brands:

KANZAN..... KF50 JUJO AF50KS-E
KOEHLER.... KT55HS01 MITSUBISHI P6402

Thermal paper should NOT be exposed to vinyl, plastics, adhesives, shrink-wraps, wet-toner copies or certain carbon papers, office light UV light, high humidity and temperature (above 65%, 25°C or 77°F) for long periods of time.

3.2. Installing the Battery

Hold the battery as shown, connectors facing downwards. Do not touch connectors on the battery or on the i7810.

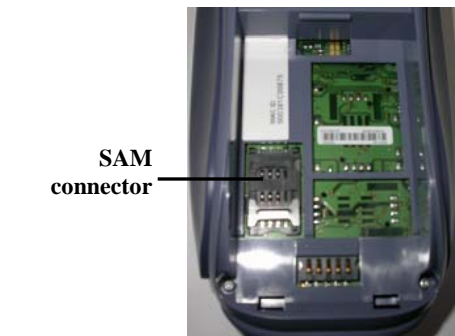


Insert the two plastic teeth in the gaps on the i7810 case, place the battery into the cavity and push it. Press the battery handle until a click is heard.

3.3. Installing the SAM Card

The SAM card connector is located underneath the battery. Make sure that i7810 is turned off before handling the battery pack. Do not touch the contacts on the battery pack or on the i7810.

- Remove the battery.



- Unlock the SAM connector by sliding the metallic latch in the direction of the OPEN arrow.
- Lift the SAM cover upward and insert the SAM card.
- Swing the cover down and slide the latch into locked position (the LOCK arrow).
- Put the battery back in the i7810 handheld.

To remove SAM card - remove battery, unlock the SAM connector, lift the cover and remove the card.

3.4. Charging the Battery:

The i7810 comes with rechargeable lithium-ion battery. Only use the battery supplied with your terminal.

Do not remove battery from i7810 unless installing or removing SAM card. Make sure that i7810 is turned off before handling the battery pack. Do not touch the contacts on the battery pack or on the i7810.