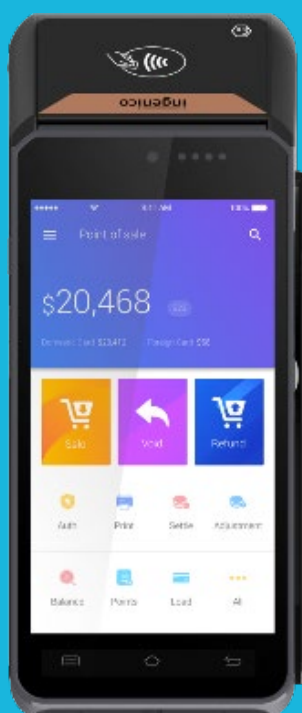


AXIUM DX8000 ATEX

User Guide



Terminal ready for
visual impaired people

www.ingenico.com

16 Place de L'Iris Tour Cb21 92400 Courbevoie – France

Banks and Acquirers International Holding, SAS / 814 767 216 RCS Nanterre

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1. Introduction

We hope that you will be fully satisfied with your new AXIUM DX8000 Smart POS terminal.

Read this guide to understand and make the best use of your terminal. It presents you the necessary information about use, installation, maintenance, safety and security recommendations.

This is the AXIUM DX8000 ATEX version, the ATEX certificate number is CSANe 21ATEX2264X, the ATEX label is as follow:



WARRANTY/SECURITY



Use only the power supply included with the product to ensure best performance and safety. Maintenance should only be provided by Ingenico authorized technician.

Failure to comply with these instructions will void the manufacturer's responsibility.



This symbol indicates an important warning.



This symbol indicates a piece of advice.

2. Hardware configuration

The hardware configurations of AXIUM DX8000 ATEX version are as follows:

Platform	Display	Module Supplier	Communication mode	Memory	Battery
Qualcomm QCM2150/ Unisoc SL8541E	5.5" HD	Quectel/Fibocom	WU/CN	1GB+8GB/ 2GB+16GB	7.2V/3350mAh

3. Presentation

3.1 Contents of the box

- AXIUM DX8000 terminal
- Power adapter
- A battery pack
- Thermal paper roll
- A battery bracket
- A battery pack screw
- A screwdriver
- A safety guide



WARNING

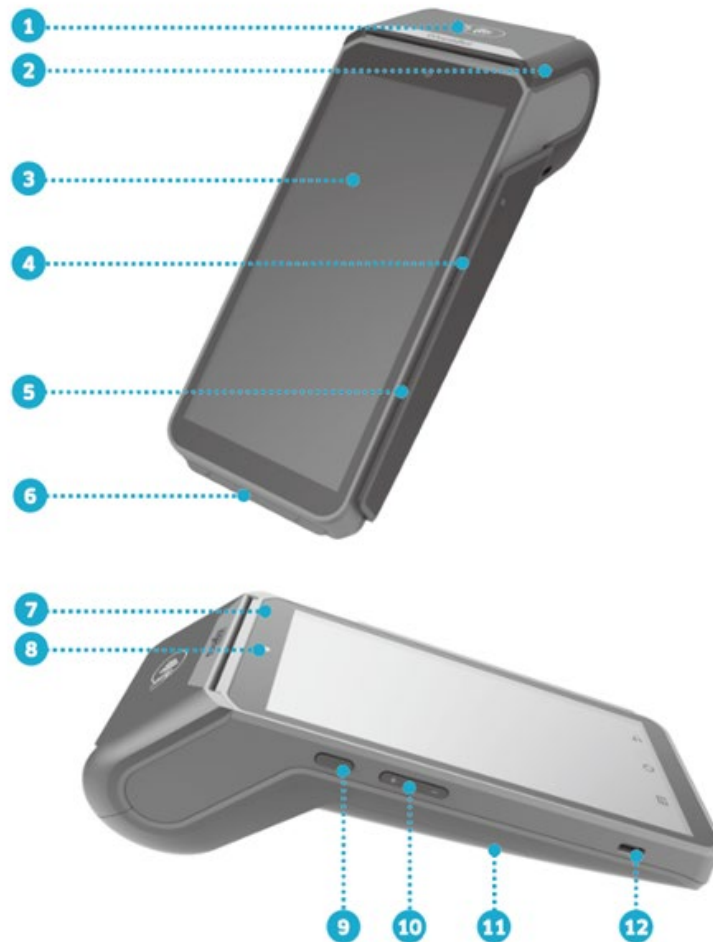
The power supply unit provided with your equipment is specially designed for INGENICO AXIUM DX8000 terminal. Do not use any other power supply and cable. The use of a power supply and cable with apparently similar voltage/current characteristics may damage your terminal.



ADVICE

Keep the package. It must be re-used whenever the terminal is shipped.

3.2 Overview of AXIUM DX8000



1) Contactless landing zone

2) Easy Loading Printer

3) LCD and touch screen

4) Magnetic card reader

5) Buzzer

6) Smart card reader

7) LEDs for Contactless Card

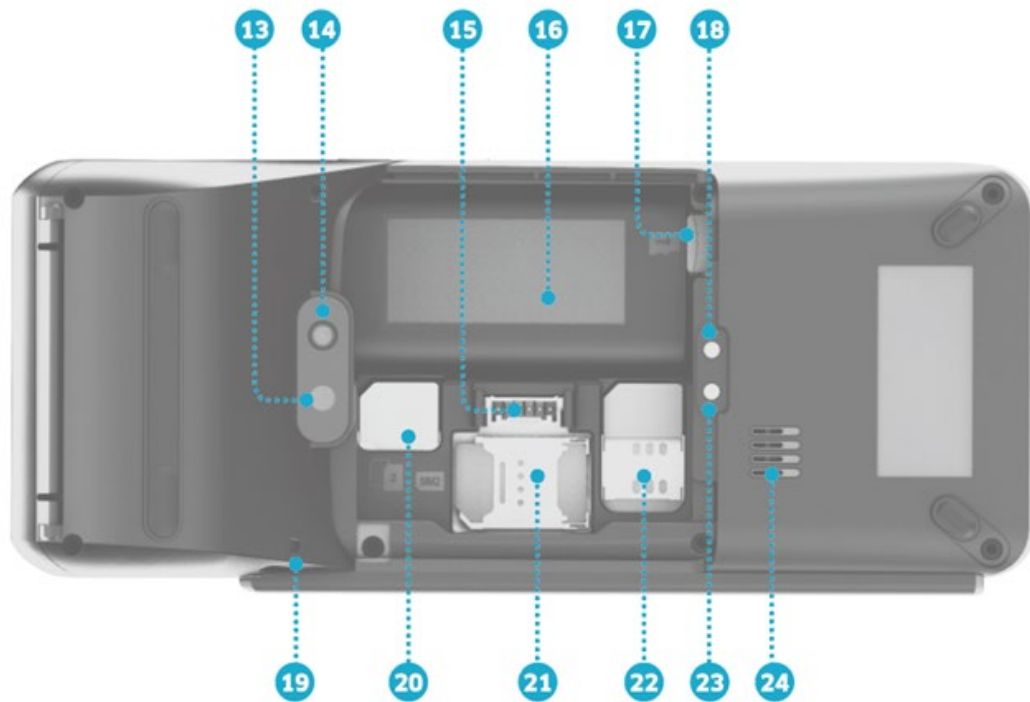
8) Front scanner

9) Power Key

10) Volume Keys

11) Battery cover

12) USB Type-C connector



13) Rear camera

14) Flash

15) Battery socket

16) Battery compartment

17) Micro SD slot

18) Base Charging interface+

19) Lanyard hole

20) SAM cards slots

21) SIM 2 card slot

22) SIM 1 card slot

23) Base Charging interface -

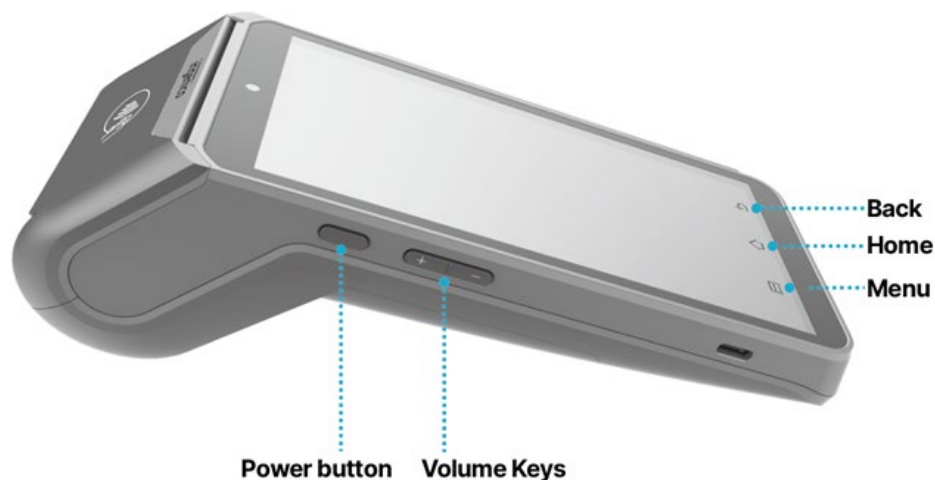
24) Speaker

Weight	450g (including battery)
Dimension (L x W x H)	198mm x 83mm x 62.5mm / 7.79 in x 3.26 in x 2.46 in
Electrical mains network	100-240VAC/50-60Hz Class II

3.3 Keypad Functions

Three physical keys on the left side of the terminal: a power button and two volume keys.

The terminal has a 5.5-inch screen, there are three capacitive keys at the bottom of the screen: Menu, Home and Back keys.



3.4 Touch Panel

The AXIUM DX8000 is equipped with touch panel that allows you capture functions and menus by your finger.

4. Use of the terminal



ADVICE

Before using the terminal, always check if the roll of paper is present.

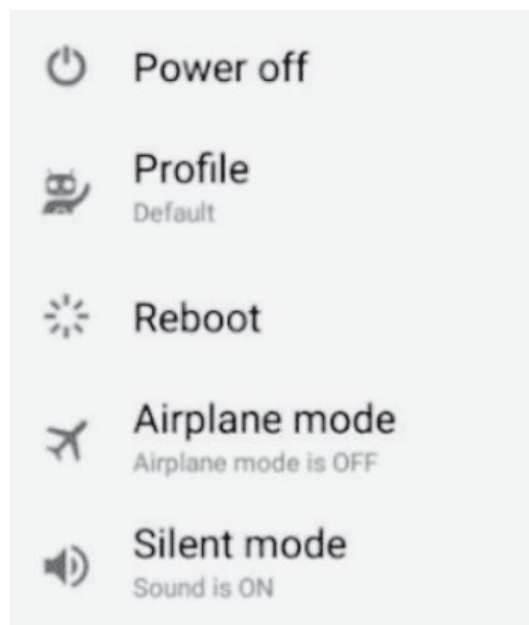
4.1 Power on/Power off the terminal

Power On Terminal:

- Make sure the terminal battery is correctly installed.
- Press <Power> button for about 1s until the display is turned on.

Power Off Terminal:

- Press and hold <Power> button for more than 2s until the display shows the following menu.
- Press <Power off>.



Battery Low:

- If the battery is empty, the terminal will automatically shut off.

Terminal restart:

- In the event of abnormal behavior of the terminal, press and hold the power button for 8 seconds to force the terminal to power off.

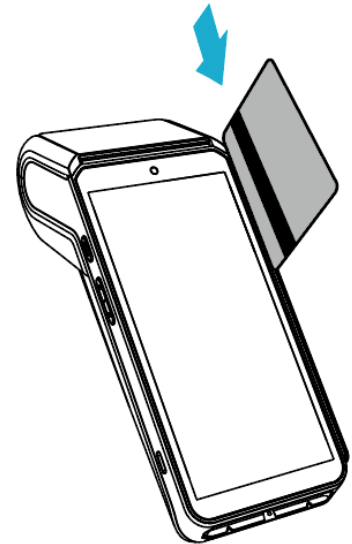
Screen saver mode:

- To conserve battery power, the screen may be turned off with a short press of the power button. (approximately 0.5 seconds).

4.2 Reading cards

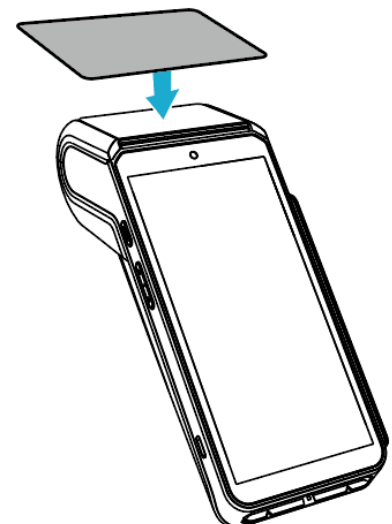
Magnetic stripe card

- The card can be read bi-directionally, with the stripe facing the terminal.
- Use regular movement in order to ensure reliable card reading.



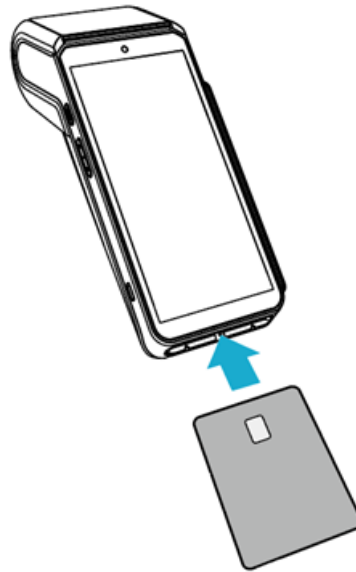
Contactless card

- Bring the card firmly up to the active zone.
- Keep the card close to the reader during the transaction.
- On the front LEDs are displayed to indicate transaction processing.

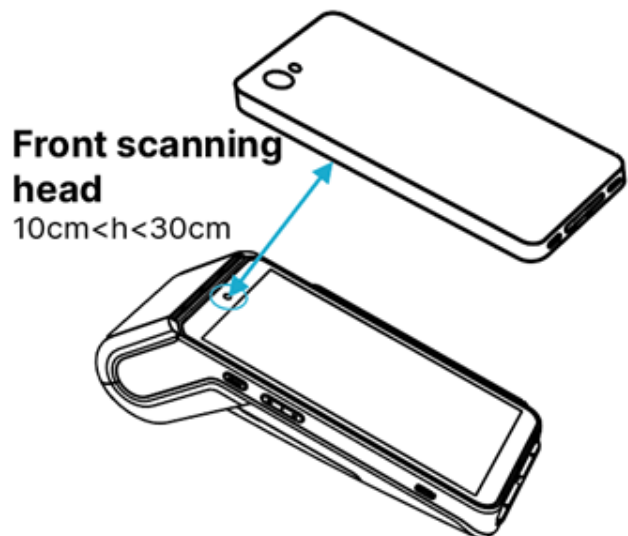


Smart card

- Insert the card horizontally with the metal chip facing upward and leave in position throughout the transaction.

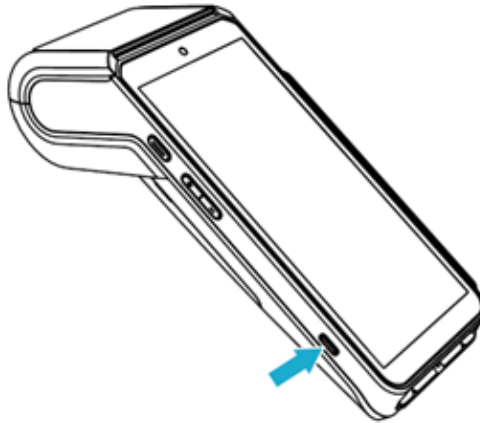
**4.3 Usage of Front Camera**

- The brightness of the mobile phone must be set to the brightest or not less than the 2/3 of the maximum brightness.
- The screen of the mobile phone must face the front scanning head above the terminal screen and keep it stationary.
- The screen of the mobile phone must be parallel to the front scanning head.
- The vertical distance between the screen of the mobile phone and the front scanning head should be between 10cm~30 cm; 20 cm would be the best.
- The terminal will beep with successful scanning.



4.4 USB Type-C

- There is a USB type-C connector on the left side of the terminal.
- The connector manages Host and Slave connections.
- The connector integrates Audio Jack solution.



WARNING

To prevent possible hearing damage, do not listen at high volume levels for long periods.

5. Installation

5.1 Recommendations

Operating conditions

Ambient temperature*

From -10°C to +50°C (14°F to 122°F)

Max relative humidity

From 10% to 90%, Non-condensing

(*)Excluding battery charging

Battery charging conditions

Ambient temperature

From 0°C to +40°C (32°F to 104°F)

Storage conditions

Ambient temperature

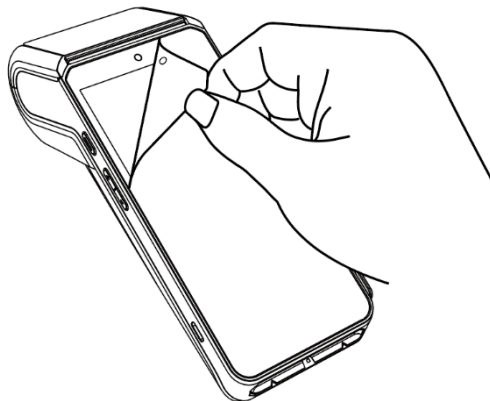
From -20°C to +70°C (-4°F to 158°F)

Max relative humidity

From 5% to 90%, Non-condensing

5.2 Screen Protective film

Please remove the protective film before usage.



5.3 Installing modules

5.3.1 SAM1/SAM2/SIM1/SIM2

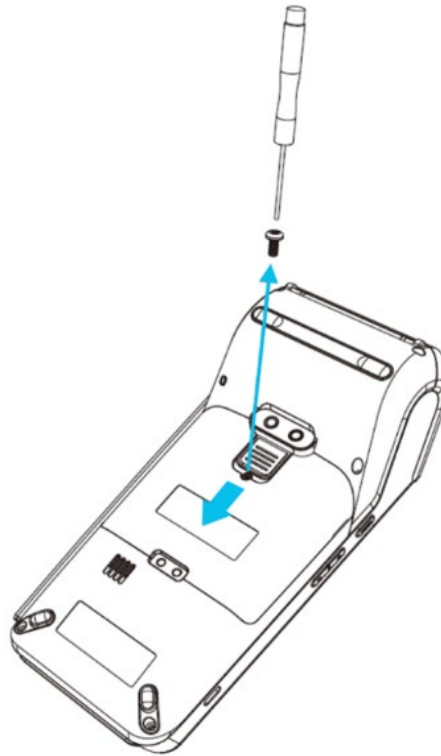


WARNING

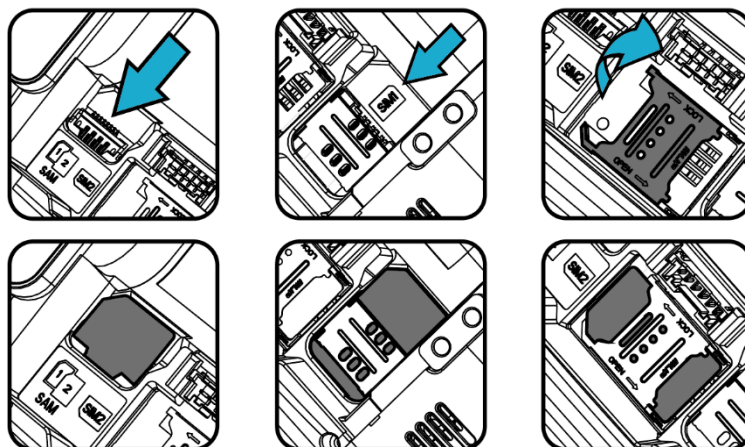
Switch off the terminal before opening the battery door.

The SAM/SIM connectors are located inside the terminal, in a closed compartment.

- Turn the terminal and open the screw on the battery door with a screwdriver and remove the battery door.



- SIM1, SIM2 or SAM1, SAM2 are identified by the engraved marks on the lower housing.
- When introducing a SAM/SIM into slot, be sure to put the cut corner as indicated on the picture.
- Close the battery door.





ADVICE

AXIUM DX8000 is equipped with a dual SAM slot.

When using two SAM cards, it is recommended to insert the bottom one first, then the top one.

When using only one SAM card, it is recommended to insert the lone SAM card into the SAM1 slot (bottom).



ADVICE

SIM and SAM cards share the same form factor, please do be careful to the SIM card socket position.

5.3.2 MicroSD Memory Card



WARNING

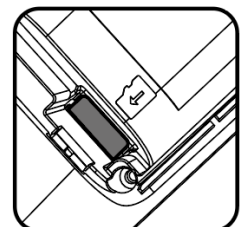
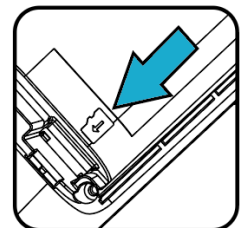
Switch off the terminal before opening the battery door.

MicroSD connector is located inside the terminal, in a closed compartment.

Turn the terminal and remove the battery door.

- MicroSD is identified by the engraved marks on the lower housing.
- Insert MicroSD card and push it to the end.
- Close the battery door.

NOTE: The terminal supports MicroSD up to 32GB.



5.4 Paper roll

5.4.1 Main characteristics of INGENICO paper roll

R40 paper roll characteristics	Precisions
Color	White
Width	58mm
Diameter	40mm
Length	About 18 meters

- The thermal paper can be deteriorated by poor storage conditions, so we recommend you avoid:
 - Storage in hot wet places(near air-conditioner, humidity higher than 85%).
 - Exposure to sunlight or ultraviolet for long periods.
 - Contact with organic solvents (solvent type adhesive).
 - Direct contact with materials containing plasticizers (PVC transparent folders or envelopes).
 - Direct contact with diazo papers.
 - Direct contact with water.
 - Rubbing or pressing the paper too strongly.



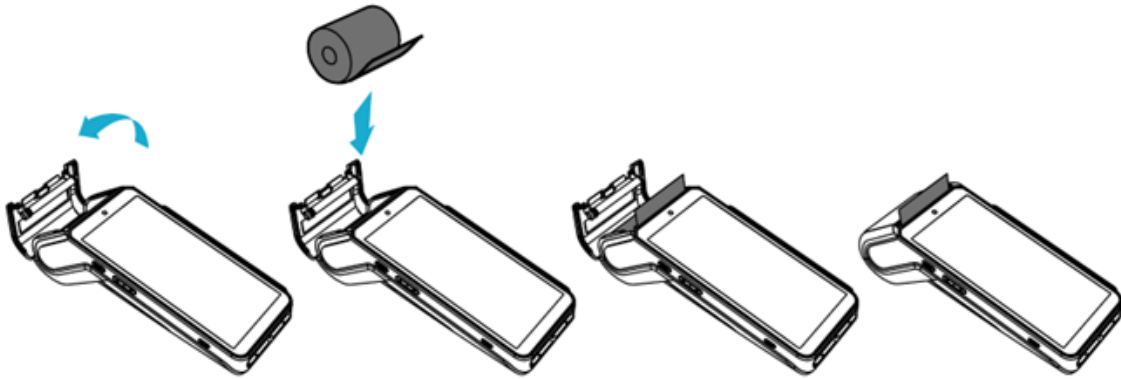
WARNING

For best product performance, only use heat sensitized paper approved by Ingenico.

Please note that the paper cutter is very sharp. Do not touch it.

5.4.2 Installing paper roll

- Open the paper cover by lifting the catch located at the top of AXIUM DX8000 and pull the cover to the rear of the terminal.
- Insert the paper roll in the compartment following the directions shown on the picture below.
- Pull the paper up to the top of terminal, maintain the paper and close the cover.
- Press simultaneously on both upper corners of the paper flap until it clips into position.



ADVICE

If you insert a new R40 paper roll, tear off the first length (one complete turn to avoid printing on adhesive footprint).



WARNING

Switch off the terminal prior to installing a paper roll. Use only paper approved by Ingenico.

The use of no-approved paper is likely to damage the printer of your terminal.

5.5 Battery

5.5.1 Charging the battery

- When does the battery need to be charged?
 - For safety reasons, the battery included with the terminal is not fully charged. Please charge the battery before use.
 - When used daily, the terminal charges its battery each time the power adapter is connected. Charging starts automatically.

- How can the battery be charged?
Using the power adapter.
- Connect the power adapter to the terminal USB type-C connector located on the left side of the terminal.
- Connect the power adapter to the power supply mains network.
- Check the charging status on the top of the screen(it means battery charging).

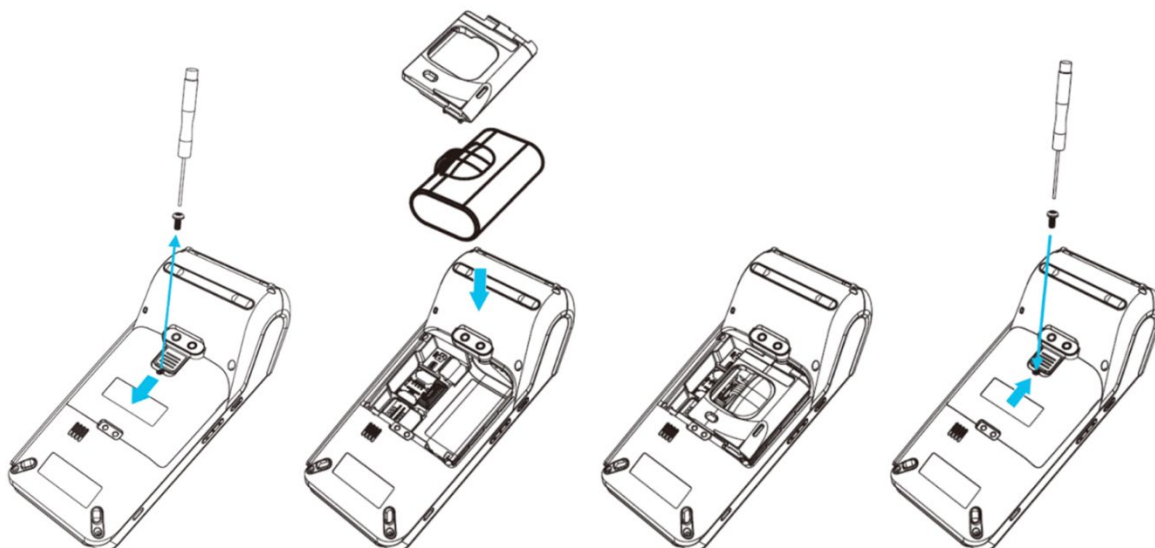
5.5.2 Installing the battery



WARNING

Use only ingenico LD18650EX batteries.
Do not replace or charge the battery in hazardous location.

- Turn your terminal, open the screw on the battery door and unclip the battery door by pushing the clips as shown with the arrow on the picture.
- Disengage the battery door.
- Take out the battery bracket and then take out battery pack included in the box.
- Locate the battery pack connector beside the battery compartment.
- Plug the battery pack connector according to the connector locating system.
- Place the battery pack in its compartment.
- Place the battery bracket in its compartment.
- Close the battery door and lock the screw.



5.5.3 Handling of Battery Fires and Smoke

- **Disconnect and isolate:** If the device is charging, immediately unplug the PSU and turn it off. Move the device to an open area, away from flammable materials and people. Never touch smoking or burning equipment with your bare hands. Use insulated tools (such as dry wooden sticks) to avoid electric shock or burns.
- **Fire extinguishing:** Use a dry powder fire extinguisher or a carbon dioxide fire extinguisher to spray at the smoking area to extinguish the fire. You can also use a large amount of sand to cover the burning equipment.

6. Recommendations

6.1 Safety



CAUTION

Please read carefully the instruction guide before the installation. All the operations must be performed by skilled and qualified personnel – any usage not included in User Guide is not allowed.

The smart POS terminal shall only be installed in an area of pollution degree 2 or better, as defined in EN 60664-1.

The smart POS terminal must be installed and maintained according to the standards and regulations for hazardous areas classified against explosion risks due to presence of gas and vapors (example: EN 60079-14, EN 60079-17, or another national standard).

The User must adopt appropriate organizational processes to avoid electrostatic charges.



CAUTION

The Smart POS Terminal only be charged in safe area using a charger approved as SELV or Class 2 equipment against EN 62368 or an equivalent EN standard. The maximum voltage and current from the charger U_m and I_m shall not exceed 5Vdc and 2A respectively. The ambient temperature during charging shall be in the range 0°C to 40°C.

**CAUTION**

The equipment/electric components must not be opened when powered.
Replace the printing paper roll only in SAFE AREA.
Disconnect and replace the battery pack only in SAFE AREA.

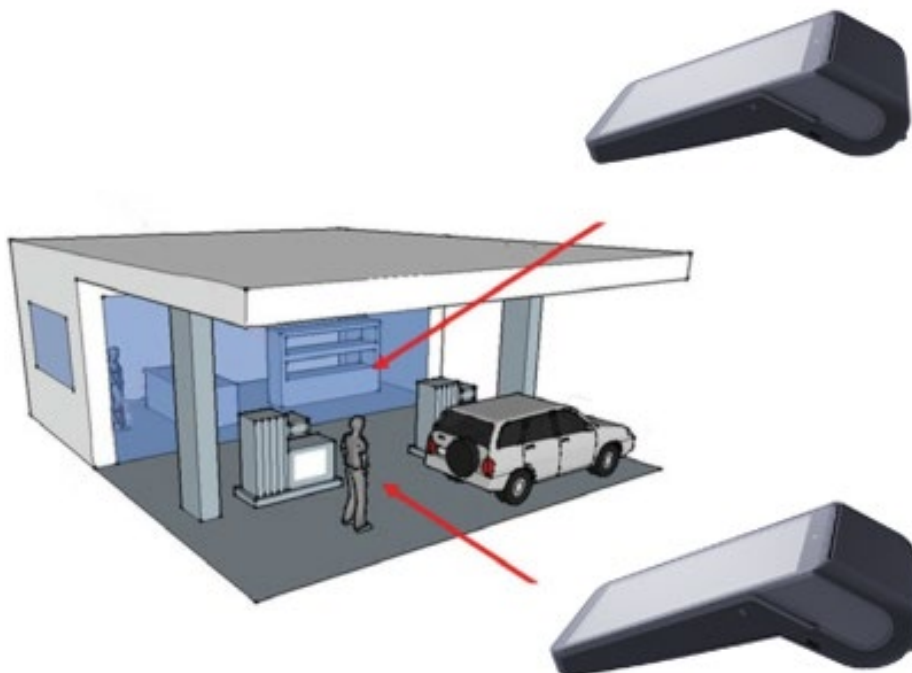
**CAUTION**

Avoid to clean or polish the device in hazardous area.
It is responsibility of the personnel of the Petrol station to respect the guidelines about the usage of the terminal and the safety level of the installation areas.

The following diagram indicates the recommended installations and use of the payment terminals in a real case.

The installations should only be done inside the shop:

- Installing SAM/SIM/MicroSD cards
- Installing/replacing the Battery
- Installing/replacing Printing Roll



The POS terminal could only be used inside the petrol station area.

**CAUTION**

The end user shall confirm this area has pollution degree 2 or better, as defined in EN 60664-1.

Powering down the AXIUM DX8000

Disconnect the AXIUM DX8000 power supply block adapter from the electrical mains network.

Lithium cell

The AXIUM DX8000 is fitted with an internal lithium cell which should only be accessed by a qualified technician.

Battery

- AXIUM DX8000 is fitted with battery specially designed for this terminal.
- Only use the appropriate chargers and batteries listed in the Ingenico's catalogue.
- Do not short-circuit the battery.
- Do not attempt to open the battery container.
- Used batteries must be disposed of at the appropriate sites.
- For long-term storage: recharge the battery at least twice per year to avoid capacity loss and body deformation due to deep discharge. It is recommended to discard unused batteries sitting in stock for 3 years.
- The battery cover is part of the fireproof enclosure. It is necessary to ensure that the battery cover is on the product.

The lifespan of battery depends on

- Features used.
- Number of charge and discharge cycles.
- Use temperature.

Signs that the battery should be replaced

- The battery fuel gauge / percentage meter drops randomly.
- Charging finishes prematurely even though the battery did not accept much power.
- Sudden capacity drops without warning.
- Self-discharge rate soars and is often uneven.
- The battery gets very hot during charging.
- The battery starts bulging.

**CAUTION**

Risk of explosion battery is replaced by an incorrect type.
Dispose of used batteries according to the instructions.

SAM1/SAM2/SIM1/SIM2 Readers compartment

- The battery door, SAM1/SAM2/SIM1/SIM2 readers located underneath the terminal, must be in place during the normal operation of the terminal.
- See sections "Installing modules" and "Installing the battery".

Tips for usage environment

- Avoid putting the terminal in direct sunlight, high temperature, moist, dusty or explosive and reduce or eliminate vibration and direct pressure.
- Keep the device and accessories out of reach of children.

On airplanes

- Your terminal must be switched off by removing the battery pack. Remove the battery from the terminal when on an airplane.
- Non-compliance with these safety rules may result in legal action and/or a ban on later access to cellular network services.

Explosion areas

- Some regulations restrict the use of radio equipment in chemical plants, fuel depots and any site where blasting is carried out.
- You are urged to comply with these regulations.
- The terminal shall be protected by a specially fitted and certified cover enabling use in proximity to a fuel pump.

Thunderstorm weather

- According to some relevant reports, the mobile phone electromagnetic wave is good conductor of lightning.
- It is much easier to suffer lightning strikes when the damp atmosphere forms magnetic conductivity, especially in open areas.
- Do not use wireless terminals in thunderstorm weather.

Electronic health appliances

- Your terminal is a radio transmitter which may interfere with health appliances, such as hearing aids, pacemaker, hospital equipment, etc.

- Your doctor or the equipment manufacturer will be able to provide you with appropriate advice.
- Even if the above instructions are strictly applied, additional risks might be present during the normal functionality of the payment terminal, for example if:
 - The payment terminal is not maintained as indicated in user and maintenance guide.
 - The payment terminal is not used as indicated by the device documentation.
- Additional or different uses not indicated in the User Guide are not allowed – Ingenico declines any responsibility for direct or indirect damage derived by improper use.
- All the maintenance operations must be executed in accordance to what indicated in the User Guides. No mechanical or electrical modification allowed unless explicitly authorized by Ingenico.
- The unauthorized replacement or non-original components compromise the safety of the payment terminal. All the spare parts must be Ingenico original.

6.2 Security of your terminal

Your device fulfills current applicable PCI PTS security requirements.

Upon receipt of your terminal you should check for signs of tampering of the equipment. It is strongly advised that these checks are performed regularly after receipt. You should check, for example: that the keypad is firmly in place; that there is no evidence of unusual wires that have been connected to any ports on your terminal or associated equipment, the chip card reader, or any other part of your terminal. Such checks would provide warning of any unauthorized modifications to your terminal, and other suspicious behavior of individuals that have access to your terminal. Your terminal detects any "tampered state". In this state the terminal will repeatedly flash the message "Warning Detected" and further use of the terminal will not be possible. If you observe the "Warning Detected" message, you should contact the terminal helpdesk immediately.

You are strongly advised to ensure that privileged access to your terminal is only granted to staff that have been independently verified as being trustworthy. The terminal must never be put in or left at a location where it could be stolen or replaced by another device.

6.3 Fixed installation

If the device is to be used in a situation where it is not possible for the cardholder to pick up and shield their PIN entry themselves, the device may be used, but it must be installed in the following manner:

- The device must be angled at 45 or more, so that oversight of the PIN entry from the rear of the device is not possible.
- The device must either be fitted in a swivel stand – so that the customer can position the device at the best angle to prevent oversight – or the device must be fixed in the best possible position to prevent oversight if such a generic position exists in the specific environment to which the device is installed.
- The device environment must be accompanied by conspicuous notices and educational material which informs the customer to shield their PIN during PIN entry.
- The device must be deployed so that oversight from other customers, either in different payment lanes, or in other areas of the shopping environment, is prevented. This may be achieved through the placement of the lanes and device, so that the customer is automatically positioned between the device keypad and other customers. Alternatively, it may be achieved by the environment in which the device is installed, so that the checkout itself shields the PIN entry process.
- The terminal is exclusively made for indoor use.

ADVICE

Positioning of the terminal on check stand must be in such a way to make cardholder PIN (Personal Identification Number) spying infeasible.

Installing device on an adjustable stand must be in such a way that consumers can swivel the terminal sideways and/or tilt it forwards/backwards to a position that makes visual observation of the PIN-entry process difficult.

Positioning of in-store security cameras such that the PIN- entry keypad is not visible.

NEVER ask the customer to divulge their PIN Code. Customers should be advised to ensure that they are not being overlooked when entering their PIN Code.



6.4 Cleaning the terminal

Good rules for proper cleaning of the terminal are:

- Unplug all wires from the terminal prior to cleaning.
- Apply soapy water or other approved cleaning product to a soft, non-abrasive cloth.
- **CLEANING PRODUCT SHOULD BE APPLIED TO THE CLEANING CLOTH AND NOT DIRECTLY APPLIED OR SPRAYED TO THE TERMINAL.** Failure to follow this step may result in damage to the terminal.
- Do not clean the electrical connections.
- Do not use solvents, detergents or abrasive products: Those materials might damage the plastic or electrical contacts.
- Avoid prolonged exposure of the terminal to the direct rays of the sun.
- Do not put anything other than credit cards into the slot of the smart card reader.

6.5 Transport and storage

When transporting the terminal

- Protect the terminal from snow, rain, and excessive exposure to the sun.
- Transport with care to avoid mechanical impact.
- Do not throw the unit forcibly. Prevent the package from intrusion during transportation to avoid breakage. The product should be stored in the original packaging.
- Do not store in warehouses that also contain harmful gases, or inflammable, explosive, or corrosive chemicals.
- Do not expose to strong mechanical vibrations or strong magnetic fields.
- Packaging should be stored at least 15 cm above the ground and be kept away from heat, cold, windows, or air inlet sources by at least 50cm.
- Follow the specific stored conditions as noted in Section 4 of this document.

7. Standards

CE MARKING

The CE marking indicates AXIUM DX8000 complies with the requirements of European Directive 2014/53/EU on Radio Equipment for:

- The protection of the health and the safety of the user and any other person.
- The protection requirements with respect to electromagnetic compatibility.
- The protection requirements linked to network protection / protection of data and personal privacy / protection from fraud.

And comply with harmonized standards, as well as RoHS Directive 2011/65/EU and its amendment directives.

❖ DX8000 Qualcomm-WU (Quectel) Version

Operating Frequency Band (RF)

GSM B2: 1850-1910MHz (TX); 1930-1990MHz (RX)
 GSM B3: 1710-1785MHz (TX); 1805-1880MHz (RX)
 GSM B5: 824-849MHz (TX); 869-894MHz (RX)
 GSM B8: 880-915MHz (TX); 925-960MHz (RX)
 WCDMA B1: 1920-1980MHz (TX); 2110-2170MHz (RX)
 WCDMA B2: 1850-1910MHz (TX); 1930-1990MHz (RX)
 WCDMA B5: 824-849MHz (TX); 869-894MHz (RX)
 WCDMA B8: 880-915MHz (TX); 925-960MHz (RX)
 LTE-FDD B1: 1920-1980MHz (TX); 2110-2170MHz (RX)
 LTE-FDD B3: 1710-1785MHz (TX); 1805-1880MHz (RX)
 LTE-FDD B5: 824-849MHz (TX); 869-894MHz (RX)
 LTE-FDD B7: 2500-2570MHz (TX); 2620-2690MHz (RX)
 LTE-FDD B8: 880-915MHz (TX); 925-960MHz (RX)
 LTE-FDD B20: 832-862MHz (TX); 791-821MHz (RX)
 LTE-FDD B28: 703-748MHz (TX); 758-803MHz (RX)
 LTE-TDD B38: 2570-2620MHz (TX); 2570-2620MHz (RX)
 LTE-TDD B40: 2300-2400MHz (TX); 2300-2400MHz (RX)
 LTE-TDD B41: 2496-2690MHz (TX); 2496-2690MHz (RX)
 Bluetooth: 2402-2480MHz
 2.4GHz WIFI: 2412-2472MHz
 5G WIFI Band1: 5180-5240MHz
 5G WIFI Band2: 5260-5320MHz
 5G WIFI Band3: 5500-5720MHz
 5G WIFI Band4: 5745-5825MHz
 NFC: 13.56MHz (TX/RX)
 GPS: 1575.42MHz±1.023MHz (RX)
 GLONASS: 1597.5MHz~1605.8MHz
 Beidou navigation: 1561.098MHz±2.046MHz

Max Of Transmit Power

EGSM850:33dBm (GMSK);27dBm (8PSK)
 EGSM900: 33dBm (GMSK); 27dBm (8PSK)
 DCS1800:30dBm (GMSK); 26dBm (8PSK)
 PCS1900: 30dBm (GMSK); 26dBm (8PSK)
 WCDMA Band1/2/5/8: 23dBm
 LTE Band1/Band3/Band5/Band7/Band8/Band20/Band28/Band38/Band40
 /Band41: 24dBm
 2.4GHz Wi-Fi: 17.90dBm,
 5.2GHz/5.3GHz/5.6GHz Wi-Fi: 18.62dBm; 5.8GHz Wi-Fi: 13.99dBm
 Bluetooth: 11.63dBm; BLE:1.77dBm
 NFC: 25.39 dBuA/m@3m

Restrictions in the 5GHz band:

According to Article 10(10) of Directive 2014/53/EU, the packaging shows that this terminal will be subject to some restrictions when placed on the market.

In all EU member states, operations of 5150–5350MHz are restricted to indoor use only.



BE	BG	CZ	DK	DE	EE	IE	EL
ES	FR	HR	IT	CY	LV	LT	LU
HU	MT	NL	AT	PL	PT	RO	SI
SK	FI	SE	NO	IS	LI	CH	TR

❖ DX8000 Unisoc-WU Version

Operating Frequency Band (RF)

GSM B2: 1850–1910MHz (TX); 1930–1990MHz (RX)
 GSM B3: 1710–1785MHz (TX); 1805–1880MHz (RX)
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 WCDMA B8: 880–915MHz (TX); 925–960MHz (RX)
 LTE-FDD B1: 1920–1980MHz (TX); 2110–2170MHz (RX)
 LTE-FDD B3: 1710–1785MHz (TX); 1805–1880MHz (RX)
 LTE-FDD B5: 824–849MHz (TX); 869–894MHz (RX)
 LTE-FDD B7: 2500–2570MHz (TX); 2620–2690MHz (RX)

LTE-FDD B8: 880–915MHz (TX); 925–960MHz (RX)
 LTE-FDD B20: 832–862MHz (TX); 791–821MHz (RX)
 LTE-FDD B28: 703–748MHz (TX); 758–803MHz (RX)
 LTE-TDD B38: 2570–2620MHz (TX); 2570–2620MHz (RX)
 LTE-TDD B40: 2300–2400MHz (TX); 2300–2400MHz (RX)
 LTE-TDD B41: 2496–2690MHz (TX); 2496–2690MHz (RX);
 Wi-Fi: 2412–2472MHz (TX/RX)
 Bluetooth/BLE: 2402–2480MHz (TX/RX)
 NFC: 13.56MHz (TX/RX)
 GPS L1 C/A: 1559–1610MHz, GLONASS G1: 1559–1610MHz, BDS B1I: 1559–1610MHz

Max Of Transmit Power

EGSM850: 32.56dBm
 EGSM900: 31.95dBm
 DCS1800: 30.67dBm
 PCS1900: 29.65dBm
 WCDMA: 21.43dBm(B1), 23dBm(B2), 23.07dBm(B5), 23.25dBm(B8)
 LTE: 24.69dBm(B1), 24.53dBm(B3), 23.07dBm(B5), 22.96dBm(B7), 24.66 dBm(B8), 23.49 dBm (B20), 23.52 dBm (B28), 23.70 dBm (B38), 23.90 dBm (B40), 23.5dBm(B41)
 BT: 9.81dBm, BLE: 1.89 dBm
 2.4G WiFi: 18.21dBm (802.11b), 16.68dBm (802.11g), 15.35dBm (802.11n20)
 NFC: 31.10dBμA/m@3m

❖ DX8000 Unisoc CN Version

Operating Frequency Band (RF)

GSM B3: 1710–1785MHz (TX); 1805–1880MHz (RX)
 GSM B8: 880–915MHz (TX); 925–960MHz (RX)
 WCDMA B1: 1920–1980MHz (TX); 2110–2170MHz (RX)
 WCDMA B8: 880–915MHz (TX); 925–960MHz (RX)
 LTE-FDD B1: 1920–1980MHz (TX); 2110–2170MHz (RX)
 LTE-FDD B3: 1710–1785MHz (TX); 1805–1880MHz (RX)
 LTE-FDD B5: 824–849MHz (TX); 869–894MHz (RX)
 LTE-FDD B8: 880–915MHz (TX); 925–960MHz (RX)
 LTE-TDD B34: 2010–2025MHz (TX); 2010–2025 (RX)
 LTE-TDD B38: 2570–2620MHz (TX); 2570–2620MHz (RX)
 LTE-TDD B39: 1880–1920MHz (TX); 1880–1920MHz (RX)

LTE-TDD B40: 2300-2400MHz (TX); 2300-2400MHz (RX)
LTE-TDD B41: 2535-2675MHz (TX); 2535-2675MHz (RX);
Wi-Fi: 2412-2472MHz (TX/RX)
Bluetooth/BLE: 2402-2480MHz (TX/RX)
NFC: 13.56MHz (TX/RX), GPS: 1575.42MHz±1.023MHz (RX)
GLONASS: 1597.5MHz~1605.8MHz; Beidou navigation: 1561.098MHz±2.046MHz

Max Of Transmit Power

EGSM900: 33.0dBm (GMSK); 27.0dBm (8PSK)
DCS1800:30.0dBm (GMSK); 26.0 dBm (8PSK)
WCDMA Band1/8: 23.4dBm
LTE Band1/Band3/Band5/Band8/Band34/Band38/Band39/Band40
/Band41:23dBm
Wi-Fi: 18.37dBm (802.11b), 14.59dBm (802.11g), 13.65dBm (802.11n20)
Bluetooth:9.14dBm, BLE:0.21dBm, NFC: 27.71 dBuA/m@3m

Environment (WEEE, Batteries and packaging)

This product is labeled in accordance with European Directives 2012/19/EU concerning Waste Electrical and Electronic Equipment (WEEE) and 2013/56/EU concerning Batteries and Accumulators. Those provisions require producers and manufacturers to become liable for take-back, treatment and recycling upon end of life of equipment and batteries.

BATTERIES

If your product contains batteries, they must be disposed of at appropriate collection points.

THE PRODUCT



The cross-out waste bin stuck on the product or its accessories means that the product belongs to the family of electrical and electronic equipment, and waste batteries must not be thrown away but collected separately and recycled.

Please contact your retailers for more detailed information about the compliance solution in place for disposing of your old product and used batteries.

Packaging waste must also be collected separately to ensure proper disposal and recycling.

In this way you can participate in the re-use and upgrading of Electrical and Electronic Equipment Waste, which can influence the environment and human health.

Electrical power supply network

The electrical outlet must meet the following criteria:

- Must be installed near the equipment and easily accessible.
- Do not short-circuit the battery.
- Do not attempt to open the battery container.

The power supply label certification eighteen symbols:



CCC (China Compulsory Certificate) Mark



The Regulatory Compliance Mark (RCM)



International Efficiency Marking Protocol (Energy Star Level 6)



In door use only



"Conformite Europe enne" or CE Mark



Double insulation symbol



5 Years China RoHS symbol



10 Years China RoHS symbol



BSMI(Taiwan)



PSE Mark (Japan)



Recycle in accordance with the waste electronic & electrical equipment directive



Underwriters Laboratories Inc (US Compliance)



Made from recyclable material



Low density version of Polyethylene (LDPE)



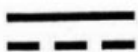
Chlorinated Polyethylene (CPE)



Risk of explosion if the battery is incorrectly replaced or is placed in a fire



Dispose of batteries at a hazardous waste collection site or recycling facility



Direct Current

8. Accessibility

The product has been designed and manufactured in accordance with the essential accessibility requirements set out in Directive (EU) 2019/882 of the European Parliament and of the Council of 17 April 2019, in particular:

- The user interface is perceivable, operable, understandable, and robust.
- The device supports use by individuals with sensory, motor, or cognitive impairments.

Accessibility has been assessed and tested according to the following harmonized standard: EN 301 549: "Accessibility requirements for ICT products and services" in accordance with the provisions of the Directive (EU) 2019/882 coordination standards specified in Resolution C (2022) 6456

The assessment remains valid as long as the hardware and software integration – including all relevant applications – continues to comply with the requirements set forth by the applicable accessibility directive.

Any significant modifications to the system architecture, user interface, or compatibility with assistive technologies must be reassessed to ensure ongoing compliance.

Some models may need require an external accessory for audio assistance, please contact Ingenico support for more information (<https://www.ingenico.com>).

This user guide is intended for professional use only. Relevant personnel will receive specialized training prior to operation to ensure a full understanding of the operating procedures, safe usage, and proper functionality of the device.

The product is a Point of sales terminal. The intended use of the terminal is to proceed payment transaction. The end user will not have access all functionalities, he will only have access to the transaction acceptance: it means present card, enter pin and validate/check the payment transaction. For any operational questions, end users may contact on-site professionals for assistance.

Power & Scan buttons for professional use only.

9. RED-DA

The product has been designed and manufactured in accordance with the essential requirements of the RED DA (Radio Equipment Directive Delegated Act), as set out in Commission Delegated Regulation (EU) 2022/30 of 29 October 2021 supplementing Directive 2014/53/EU of the European Parliament and of the Council with regard to the application of the essential requirements referred to in Article 3(3), points (d), (e) and (f).

- Article 3.3 (d): Network Protection
- Article 3.3 (e): Data and Privacy Protection
- Article 3.3 (f): Fraud Prevention

RED DA aspects have been assessed and tested in accordance with the harmonized standard EN 18031: "Common security requirements for radio equipment", ensuring alignment with the essential cybersecurity requirements of Directive 2014/53/EU. This applies to the relevant categories and classes of radio equipment as specified in Delegated Regulation (EU) 2022/30.

The assessment remains valid as long as the hardware and software integration – including all relevant applications – continues to comply with the requirements set forth by the applicable RED DA. Any additional software should follow RED DA requirements to remain EU compliant.

Please contact Ingenico support for more information (<https://www.ingenico.com>).

10. Troubleshooting

Q: The terminal cannot be started.

A: The device may be in a low energy status or an application running on the device may be in a defective state. Please ensure that the device is powered and then reset the device. If this still fails, please contact our customer service department for help.

Q: Printer cannot work.

A: This may be caused by abnormal power supply or incorrect paper installation.

Check the battery status or the terminal power connection. If the remaining battery power is insufficient for a complete printing operation, the printer will not print the paper.

Check the printer roller and see if the paper dust cover is correctly installed.

If the problem still exists, please contact our customer service center.

Q: Transaction Processing Failure.

A: Following reasons are likely to cause transaction failure: damaged magnetic card or smartcard SAM card, damaged card reader, improper operation of card swiping, damaged or unconnected, unconnected phone line, etc.

- Try to use more than one magnetic card to test the transaction, to confirm the failure is not caused by magnetic card.
- Make sure card swiping is operated correctly.
- Manually process the transaction instead of card reader. If manual transaction works, the failure may be caused by magnetic card readers.
- Use more than one smart card to test the transaction, to confirm the failure is not caused by smart card. Make sure the SAM card is correctly inserted into the card slot.
- Check if the SIM card is installed correctly and local wireless communication network functions or not.

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