

User Guide

M10SE Portable Data Terminal



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- Every effort has been made to ensure the accuracy and completeness of the information in this user guide. However, errors or omissions may exist.
- LANDI reserves the right to modify product software, hardware or documentation without notice.
- Product details in this guide may differ from the actual product due to updates. Refer to the physical product for authoritative information.
- LANDI shall not be held liable for damages, malfunctions, data loss or accessory loss caused by operations not complying with instructions in this guide.

Use this Manual

Legend



Danger

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Warning

Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage, data loss, performance degradation, or unexpected results.



Notes

Indicates important information that helps make better use of the device and features.

Important Safety Information

Regulated Substances in the Product

The environmentally sustainable lifespan of this product is 10 years, subject to the specified climate conditions for normal operation, storage, and transportation as outlined in the product's technical characteristics. Upon reaching its end-of-life stage, we highly recommend returning it along with its packaging to LANDI.

Part Name	Hazardous Substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Casing	×	○	○	○	○	○
Circuit board	○	○	○	○	○	○
Power Supply (optional)	×	○	○	○	○	○
Wire (optional)	○	○	○	○	○	○
Packaging materials	○	○	○	○	○	○
Lithium battery	○	○	○	○	○	○

Complies with China's SJ/T 11364 standard.

○: Indicates that the content of the hazardous substance in all homogeneous materials of the part is below the limit requirements specified in GB/ T 26572.

×: Indicates that the content of the hazardous substance in at least one homogeneous material of the part exceeds the limit requirements specified in GB/ T 26572.

Note:

1. Most of the parts of this product are made of harmless environmental protection materials, and the parts containing harmful substances or elements cannot be replaced by harmless substances due to the limitation of global technological development level.
2. The environmental data for reference are obtained by testing in the normal use and storage environment required by the product, such as humidity and temperature.



Safety Rules

● Power Supply

- Use only provided LANDI power adapter.
- Maintenance restricted to authorized LANDI technicians.
- Connect to properly rated electrical outlet (20A for type A plug).
- Ensure outlet is easily accessible and meets local regulations.
- Disconnect adapter from electrical mains network to power off.
- Shut down terminal after daily operations to save energy.
- Avoid connecting or disconnecting components while powered on.

● Battery Safety

- Use only LANDI-approved batteries and chargers.
- Avoid battery short-circuit or container opening.
- Proper disposal required for used batteries.
- Risk of explosion with incorrect battery replacement.
- Batteries should not be subjected to prolonged discharge.
- For every six months of storage, charge the battery once using standard charging method to maintain the battery level at 50%-70%.

- Do not chisel, hammer, or drop the battery pack for destruction. Otherwise, it will cause temperature rise, smoke, distortion, fire, or explosion.
- Distorted or damaged battery pack which is caused by extrusion, drop, collision, or other mechanical force could not be used any more, or else temperature rise, smoke, flame, or fire hazard might happen.

- **Environmental Restrictions**

- Avoid use in explosion-risk areas (chemical plants, fuel depots).
- Suspend use during thunderstorms.
- Use certified protective cover near fuel pumps.
- Remove battery when on aircraft.
- Avoid harsh environments with direct sunlight, high temperatures, humidity, or dust.

- **Health and Safety**

- Radio transmission may interfere with medical devices.
- Consult healthcare providers regarding potential interference.
-  High sound pressure with hearing damage risk. Do not listen at high volume levels for long periods.



Usage Instructions

- **Terminal Security**

- Regular inspection for tampering signs:
 - Unauthorized wire connections
 - Card reader condition
- Report "Warning Detected" messages immediately.

- Restrict access to verified trustworthy staff.
- Maintain terminal visibility at all times.
- Secure terminal against theft or replacement.

- **Component Guidelines**

- Keep SIM reader compartment cover in place.
- Battery life factors:
 - Feature usage patterns
 - Charge cycle frequency
 - Operating temperature

- **Network Compliance**

- Follow cellular network regulations.
- Non-compliance may result in service ban or legal action.

- **Abnormal Conditions**

If any of the following phenomena occur during work:

- Stop operation immediately.
- Cut off power supply.
- Promptly report to service provider when:
 1. Hearing sharp noises during operation
 2. Impurities or water enter terminal
 3. Unpleasant odors emit during operation

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1. Product Profile

1.1. Introduction

The M10SE is a versatile mobile terminal that integrates advanced Android capabilities. It features a large 5-inch touch screen display and operates on Android 13 platform. Powered by a 2.0 GHz quad-core processor, the terminal delivers efficient performance for daily business operations.

The M10SE supports comprehensive connectivity options including 4G/3G/2G networks, dual-band Wi-Fi, and Bluetooth 5.0, with optional GPS and eSIM support. Built with merchant mobility in mind, it meets multiple international certifications including CE, FCC, and RoHS.

1.2. Unboxing Inspection

Upon opening, inspect the terminal and optional accessories for any signs of disassembly or transit damage. Check for:

- Terminal main unit
- Battery pack
- Power adapter
- Quick start guide
- USB cable

Remove all plastic packaging from the terminal and accessories. Peel off the protective film from the LCD screen. Retain the transit packaging for future transportation of the terminal.

1.3. Overview



1. Front Camera

Captures images and videos.

2. Power Button

Short press: Wake up/lock screen

Long press:

- 2–3s (when off): Power on
- 2–3s (when on): Power off/restart
- 6–8s: Force shutdown if system freezes

3. Quick Button 1

Functions as scan button—press and hold to activate scanner.

4. NFC Reader

Reads NFC cards (including membership cards).

5. Quick Button 2

Functions as scan button—press and hold to activate scanner.



6. Rear Camera

Scans QR/bar codes and captures photos.

7. Flashlight

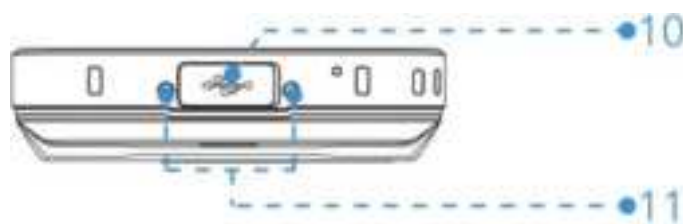
Provides lighting in camera mode.

8. Scanner (Optional)

Collects barcode data.

9. SIM/SD Card Slot

Accepts Nano SIM and Micro SD cards.



10. USB Type-C Port

Supports charging and developer debugging.

11. DC Input Pins

Power/ground charging pins (5V).

2. Product Technical Features

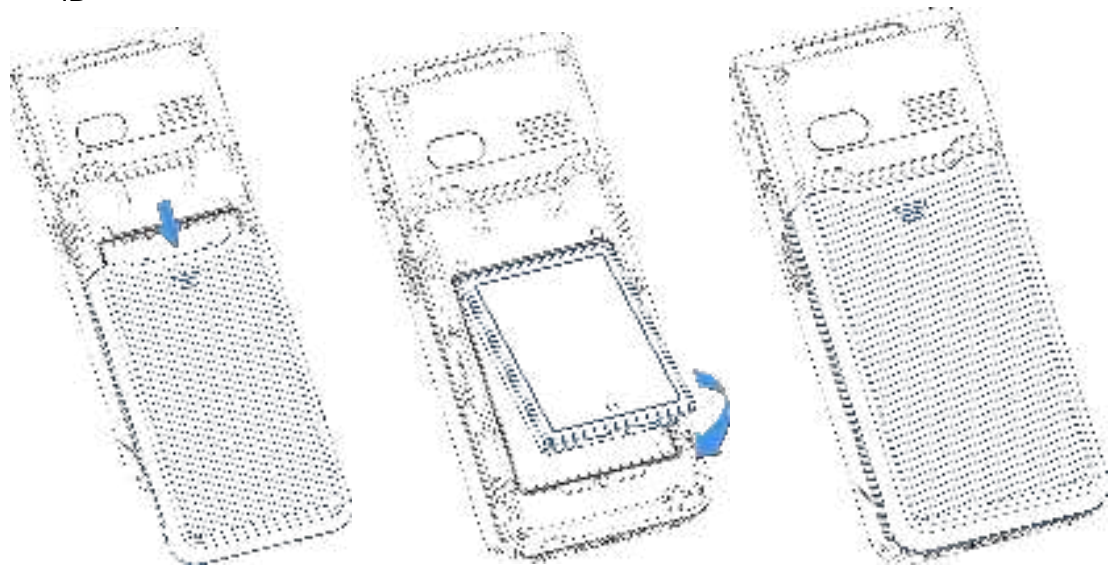
OS	Android 13 (GMS Certified)
Processor	A53 quad-core processor, 2.0 GHz
Memory	Standard: 2 GB RAM + 16 GB Flash Optional: 3 GB RAM + 32 GB Flash Optional: 4 GB RAM + 64 GB Flash Expandable: Micro SD card support (up to 64 GB)
Display	4.96" IPS LCD, 480 × 854, capacitive multi-touch panel
Scanner	Options: ● None ● LANDI scan engine
Physical Buttons	● Power button * 1 (Right side) ● Scan button * 2 (Optional, both sides)
Audio	● Speaker: 2W output ● Microphone ● USB Type-C audio interface
Connectivity	● Cellular: 4G/3G/2G networks ● WLAN: Dual-band Wi-Fi (2.4 GHz & 5 GHz) ● Bluetooth 5.0 (BR/EDR + BLE)
Positioning	Multi-GNSS support: ● GPS ● GLONASS ● BDS (BeiDou Navigation Satellite System)
Cameras	Rear camera: ● 5 MP sensor ● Auto focus lens ● LED flash Front camera (Optional): ● 0.3 MP sensor ● Fixed focus
NFC (Optional)	● Android NFC certified ● ISO/IEC 14443 ● Support Type A/B, Mifare
Ports	● SIM card slot *2 ● USB Type-C port * 1 ● Pogo pin connector * 2

	● eSIM support (Optional)
PSU	5 V DC, 2 A
Battery	● Removable lithium battery pack ● Voltage/Capacity: 3.7 V/3000 mAh
Accessories (Optional)	● Basic charging base ● Wrist strap ● Screen protector ● Protective case
Weight	245 g
Environment	Operating temperature: -10°C to +50°C (14°F to 122°F) (Non-charging) Charging temperature: 0°C to +40°C (32°F to 104°F) Storage temperature: -20°C to +70°C (-4°F to 158°F) Operating humidity: 10% to 90% (Non-condensing)
Durability	Drop resistance: 1.2 m (LANDI Lab tested)

3. Product Installation

3.1. Installing Battery

1. Open the back cover in the direction indicated by the arrow.
2. Take the battery pack from the package box.
3. Align the battery with the connector in the compartment.
4. Place the battery pack into the compartment.
5. Replace the back cover.
6. When the battery is replaced, the user can view the FCC ID& IC ID

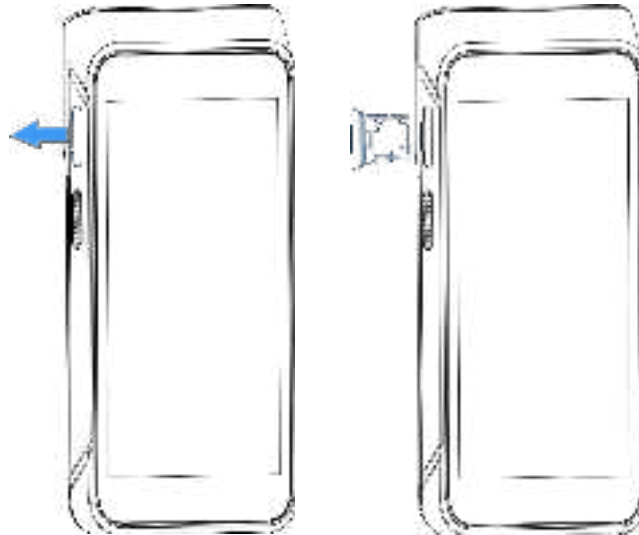


Battery Charging

1. Connect power adapter to USB Type-C port.
2. Plug adapter into power supply mains.
3. Verify charging status: Check for lightning bolt icon in screen's upper right corner.

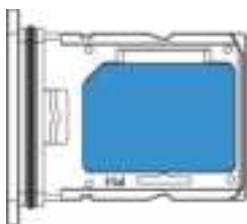
3.2. Inserting Cards

1. Power off the terminal, then remove the SIM/SD card tray from the left side of the screen.

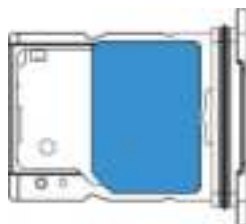


2. Cards can be placed on both sides of the tray, with card types marked accordingly:

- One side for SIM1
- The other side for either SIM2 or Micro SD card
(Only one can be used)



SIM1 Card



SIM2 Card



Micro SD Card

3. After placing the cards, push until cards click into place.

4. Usage

4.1. Power Operations

- **Power On**

With battery properly installed, press the power button for 2–3 seconds until screen activates.

- **Power Off/Restart**

Press the power button for 2–3 seconds, select **Power off** or **Restart** from menu.



- **Screen Control**

Short press the power button for 0.5 seconds to turn the display on or off.

- **Emergency Shutdown**

If system becomes unresponsive, long press the power button for 11 seconds. The terminal will automatically power off.

4.2. Reading Contactless Card

1. Place the card against the sensing area at the top of the terminal.
2. Hold the card steady until hearing the confirmation sound.
3. Remove the card after the sound.



4.3. Scanning Code

1. Press and hold either scan button.
2. Align the laser at the center of the code.



Notes:

The mapping of scan engine models to device hardware version identification numbers (HVIN) is as follows:

HVIN	M10SES0	M10SES3	M10SES4
Scan Engine Model	-	Scanner 1	Scanner 2

5. Maintenance

When cleaning, always disconnect the power source first. Wipe the exterior surfaces with a soft, dry cloth.

- For light dirt, dampen a clean cloth with 1–2 drops of mild, neutral cleaner. Never spray cleaners or liquids directly onto the display screen and do not use an overly wet cloth.
- For stubborn stains, gently wipe with isopropyl alcohol or an alcohol-based cleaner. Do not use diluent thinners, trichloroethylene, ketone-based solvents or other strong chemicals as these may damage plastic or rubber parts.

6. Transportation and Storage

- **Transportation**

The terminal should be handled carefully to prevent damage from rain, snow, sunlight, mechanical impacts, or dropping. The packaging must prevent crushing during transit to avoid damage.

- **Storage**

Store the product in its original packaging box. The storage area should be free of hazardous gases, flammables, explosives, corrosives, strong vibrations, impacts, or magnetic fields. Place the box at least 15 cm off the ground and 50 cm away from walls, heat/cold sources, windows, or air intakes.

7. FAQs

Question: Why won't my terminal start?

Answer:

1. Verify power supply/battery level.
2. Restart terminal.
3. If problem persists, contact customer service.

Question: Why did my transaction fail to process?

Answer:

1. Test multiple contactless cards.
2. Try manual transaction mode.
3. Check SIM card placement
4. Verify network connection.
5. Contact customer service if unresolved.

8. Frequency Bands and RF Output Power

The M10SE terminal supports the following wireless specifications:

Network Type	Band	TX (MHz)	RX (MHz)	RF Output Power (ERP/EIRP/Conducted) (dBm)
GSM	GSM 900	880-915	925-960	33
	DCS 1800	1710-1785	1805-1880	30
WCDMA	Band 1	1920-1980	2110-2170	24
	Band 5	824-849	869-894	24
	Band 8	880-915	925-960	24
LTE	Band 1	1920-1980	2110-2170	23
	Band 3	1710-1785	1805-1880	23
	Band 5	824-849	869-894	23
	Band 7	2500-2570	2620-2690	23
	Band 8	880-915	925-960	23
	Band 20	832-862	791-821	23
	Band 28	703-748	758-803	23
	Band 34	2010-2025	2010-2025	23
	Band 38	2570-2620	2570-2620	23
	Band 40	2300-2400	2300-2400	23
	Band 41	2496-2690	2496-2690	23

Wireless Type	Frequency Range (MHz)	RF Output Power (ERP/EIRP/Conducted) (dBm)
WLAN 2.4G	2412-2462 / 2422-2462	19.92
WLAN 5G	5180-5240 5190-5230 5210 5250 5260-5320 5270-5310 5290	19.45
	5500-5700 5510-5670 5530 5610 5570	16.34
WLAN 5.8G	5745-5825	13.92
Bluetooth (BDR/EDR)	2402-2480	8.78
BLE	2402-2480	-0.22
NFC	13.56	-2.31dBuA/m at 10m

**For EU compliance.*

ATTENTION

- The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
- The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. Limit.
- The maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. Limits specified for point-to-point and non point-to-point operation as appropriate.
- Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and or damage to LE-LAN devices.
- L'appareil fonctionnant dans la bande 5150-5250 MHz est destiné uniquement à une utilisation en intérieur afin de réduire les risques d'interférences nuisibles aux systèmes satellites mobiles utilisant le même canal.
- Le gain maximal d'antenne autorisé pour les appareils fonctionnant dans les bandes 5250-5350 MHz et 5470-5725 MHz doit être conforme à la limite de p.i.r.e.
- Le gain maximal d'antenne autorisé pour les appareils fonctionnant dans la bande 5725-5825 MHz doit être conforme aux limites de p.i.r.e. spécifiées pour l'exploitation point à point et non point à point, selon le cas.
- Les utilisateurs doivent également être informés que les radars de haute puissance sont désignés comme utilisateurs principaux (c'est-à-dire utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz, et que ces radars peuvent causer des interférences et/ou endommager les appareils LE-LAN.

9. Standards

CE SAR Statement

This equipment complies with Directive 2014/53/EU radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by European Union market (France). These requirements set a SAR limit of 2W/kg averaged over ten grams of tissue. When properly worn on the body, this product's highest SAR value reported during certification was 1.59W/kg under this standard.

These requirements set a SAR limit of 4W/kg averaged over ten grams of tissue. When properly worn on the limbs, this product's highest SAR value reported during certification was 3.12W/kg under this standard.

Hereby, LANDI declares that the radio equipment type M10SE is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://www.landiglobal.com/>.

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 interference 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.

FCC SAR Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6W/kg averaged over one gram of tissue. When properly worn on the body, this product's highest SAR value reported during certification is under this standard. This equipment should be installed and operated with minimum distance 10mm between the radiator and your body. These requirements set a SAR limit of 4W/kg averaged over ten grams of tissue. When properly worn on the limbs, this product's highest SAR value reported during certification is under this standard. This equipment should be installed and operated with minimum distance 0mm between the radiator and your limbs

ISED Compliance Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is

subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- L'appareil ne doit pas produire de brouillage
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC SAR statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6W/kg averaged over one gram of tissue. When properly worn on the body, this product's highest SAR value reported during certification is under this standard. This equipment should be installed and operated with minimum distance 10mm between the radiator and your body.

These requirements set a SAR limit of 4W/kg averaged over ten grams of tissue. When properly worn on the limbs, this product's highest SAR value reported during certification is under this standard. This equipment should be installed and operated with minimum distance 0mm between the radiator and your limbs.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions d'utilisation spécifiques pour satisfaire la conformité à l'exposition RF. Cet émetteur ne doit pas être co-situé ou fonctionner conjointement avec une autre antenne ou émetteur.

L'appareil portable est conçu pour répondre aux exigences d'exposition aux ondes radio établies par l'ISED. Ces exigences fixent une limite de SAR de 1,6W/kg en moyenne sur un gramme de tissu. Lorsqu'il est correctement porté sur le corps, la valeur SAR la plus élevée de ce produit déclarée lors de la certification, est inférieure à cette norme. Cet équipement doit être installé et utilisé avec une distance minimale de 10 mm entre le radiateur et votre corps.

Ces exigences fixent une limite de SAR de 4W/kg en moyenne sur dix grammes de tissu. Lorsqu'il est correctement porté sur les membres, la valeur SAR la plus élevée de ce produit déclarée lors de la certification, est inférieure à cette norme. Cet équipement doit être installé et utilisé avec une distance minimale de 0 mm entre le radiateur et vos membres.

Environmental Compliance (WEEE, Batteries and Packaging)

LANDI M10SE is labeled in accordance with European Directives 2012/19/EU concerning Waste Electrical and Electronic Equipment (WEEE) and 2013/56/EC concerning Batteries and Accumulators. Those provisions are requiring producers and manufacturers to become liable for take-back, treatment and recycling upon end of life of equipment and batteries.



The crossed-out wheeled bin symbol on the product or accessories indicates it is considered electronic equipment waste (WEEE) which must be properly disposed of and should not be thrown away. Spent batteries must also be collected separately for recycling.

Please contact your retailer for more details on the take-back and recycling program in place for disposing of old equipment and batteries. Participating ensures their responsible re-use and recycling, which benefits both the environment and human health.



The Green Dot symbol on the packaging confirms it complies with Directive 94/62/EC concerning packaging and packaging waste. Packaging bearing this symbol must be returned through collection schemes managed by accredited Green Dot organizations for recovery.

RF Compliance

The functions of Wireless Access Systems including Radio Local Area Networks(WAS/RLANs) within the band 5150-5350 MHz for this device are restricted to indoor use only within all European Union countries.



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



廢電池請回收



10. Customer Support

- **Data Backup**

Please back up all terminal data before requesting any after-sales support. LANDI does not back up data directly from terminals received for service work. We are not responsible for any data loss or deletion that may occur.

- **Repairs**

Please contact local distributors or [LANDI after-sales team](#) to arrange a repair. Be sure to keep your invoice or other valid proof of purchase documentation and present it when necessary.

- **Manufacturer**

Fujian LANDI Commercial Equipment Co., Ltd.

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