



**Empowering Connections,
Creating a Digital Future**

M20SE

QUICK START GUIDE



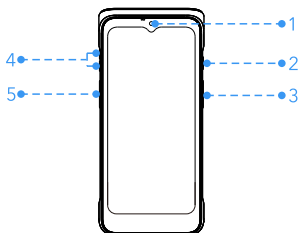
This symbol indicates an important warning.

Before Start



When powering on for the first time, remove the back cover, peel off the battery sticker, and insert the lithium battery.

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

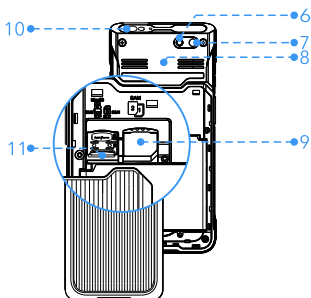
Functions as scan button—press and hold to activate scanner.

4. Volume Button

Press "+" to increase, "-" to decrease volume.

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. NFC Reader

Reads NFC cards (including membership cards).

9. SAM Card Slot

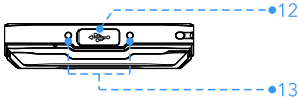
Supports two encrypted SAM cards.

10. Scanner (Optional)

Collects barcode data.

11. SIM/SD Card Slot

Accepts Nano SIM and Micro SD cards.



12. USB Type-C Port

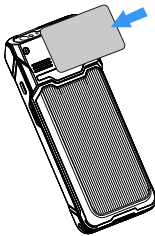
Supports charging and developer debugging.

13. DC Input Pins

Power/ground charging pins (5V).

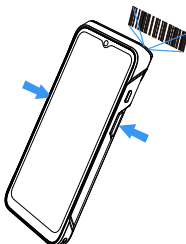
Reading Contactless Card

Hold the card against the sensing area at the top rear of the terminal.
Keep the card in position until a confirmation beep sounds.



Scanning Code

Point the scanner at the code and press either side button. Align the laser beam with the center of the code.



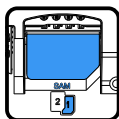
Inserting Cards

Power off the terminal first, open the back cover and remove the battery before accessing the card compartment.

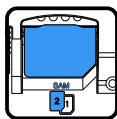
SAM Cards

1. Insert SAM1 card in the bottom slot.
2. Insert SAM2 card in the top slot.
3. Push until cards click into place.

Note: Supports two SAM cards simultaneously



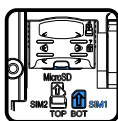
SAM1 Card



SAM2 Card

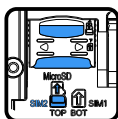
SIM/Micro SD Cards

1. Insert SIM1 card in bottom slot.

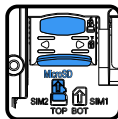


SIM1 Card

2. Insert either SIM2 or Micro SD in top slot (only one can be used).

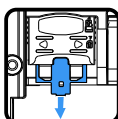


SIM2 Card



Micro SD Card

3. Push until cards click into place.
4. To remove SIM1, pull out card slot in indicated direction.



SIM1 Card

Regulated Substances in the Product

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

1. 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.

2. Battery Safety

- Use only LANDI-approved batteries and chargers.
- Avoid battery short-circuit or container opening.
- Do not disassemble or modify the battery's external structure in any way.
- Ensure discarded batteries are handled by qualified personnel. Never dispose of them in fire or water.
- 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.
- To preserve the system clock, reinsert within ten minutes when replacing the battery.
- If, during use or storage, the battery exhibits any abnormalities such as overheating, leakage, emitting an odor, or deformation, discontinue use immediately.
- Do not expose the battery to damp environments, open flames, or flammable and explosive materials.
- Do not use the battery in environments of extreme temperature, such as in direct sunlight or inside a vehicle on a hot day.
- Charging temperature: 0°C to +40°C (32°F to 104°F).

3. 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.
- Operating temperature: -10°C to +50°C (14°F to 122°F) (Non-charging).

4. Health and Safety

- Radio transmission may interfere with medical devices.
- Consult healthcare providers regarding potential interference.

-  Avoid prolonged high-volume speaker use.



- Do not stare into the laser beam as this is a Class 2 laser product.



Usage Instructions

1. 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.

2. Component Guidelines

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

3. Network Compliance

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

4. 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

Disclaimer

- Every effort has been made to ensure the accuracy and completeness of the information in this quick start guide. However, errors or omissions may exist.
- Fujian LANDI Commercial Equipment Co., Ltd. holds full copyright over this guide and 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.
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Standards

CE Marking

LANDI M20SE complies with the essential health, safety, and electromagnetic compatibility requirements of European Directive 2014/53/EU on Radio Equipment for:

- Protecting the health and safety of users and all other parties.
- Meeting electromagnetic compatibility protection standards.

FCC Marking

LANDI M20SE complies with Part 15 of the Federal Communications Commission (FCC) rules.

- The protection of the health and the safety of the user and any other person.
- The protection requirements with respect to electromagnetic compatibility.

Environmental Compliance (WEEE, Batteries and Packaging)

LANDI M20SE 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 and recycling.

Accessibility Compliance

LANDI M20SE is certified under the EU Accessibility Directive (EU/2019/882) and complies with EN 301 549 requirements. It is compatible with standard Braille keyboards, available for separate purchase.



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	FO	SE	NO	IS	LI	CH	TR



廢電池請回收



Visually Impaired (VI) PIN Entry Service

This service offers multiple PIN entry methods for security and compliance.

• General Interaction

- Navigation: Slide a finger across the screen to navigate; audio and tactile feedback are provided on key contact.
- Input: Double-tap a key to enter the digit.

• Physical VI PIN PAD Assistance

A dedicated physical keypad overlay can be placed on the screen, mapping its hardware buttons to the screen's input zones to enable tactile entry.

• Full-Screen Interface

The entire display acts as a simplified input area containing all necessary keys (0-9, Cancel, Confirm).

1	2	3
4	5	6
7	8	9
×	0	○

• Paginated Interface

A three-page system for input:

- Page 1: Keys 1, 2, 3, 0, Cancel, Confirm.
- Page 2: Keys 4, 5, 6, 0, Cancel, Confirm.
- Page 3: Keys 7, 8, 9, 0, Cancel, Confirm.

1	2	3
×	0	○

This product is a non-self-service device intended for operation by staff. The transaction process is completed under the guidance of an operator. Accessibility is applicable only to the transaction phase, in compliance with EU Directive 2019/882 and standard EN 301 549. The respective parties are responsible for third-party software components, which must also meet the corresponding accessibility requirements.

Frequency Bands and RF Output Power

The M20SE terminal supports the following wireless specifications:

Network Type	Band/ Designation	TX Frequency (MHz)	RX Frequency (MHz)	RF Output Power (Conducted) (dBm)
GSM	GSM850	824-849	869-894	34.9 (GMSK), 29.19 (8PSK)
	EGSM900	880-915	925-960	34.85 (GMSK), 28.74 (8PSK)
	DCS1800	1710-1785	1805-1880	31.16 (GMSK), 26.55 (8PSK)
WCDMA	Band 1	1920-1980	2110-2170	23.14
	Band 5	824-849	869-894	23.97
	Band 8	880-915	925-960	23.96
LTE	Band 1	1920-1980	2110-2170	22.9
	Band 3	1710-1785	1805-1880	22.8
	Band 5	824-849	869-894	24.1
	Band 7	2500-2570	2620-2690	22.7
	Band 8	880-915	925-960	23.9
	Band 20	832-862	791-821	23.9
	Band 28	703-748	758-803	23.8
	Band 38 (TDD)	2570-2620	2570-2620	22.9
	Band 39 (TDD)	1880-1920	1880-1920	22.9
	Band 40 (TDD)	2300-2400	2300-2400	23.3
	Band 41 (TDD)	2496-2690	2496-2690	23.2

Wireless Type	Frequency Range (MHz)	RF Output Power (Conducted)
WLAN 2.4G	2412-2472 / 2422-2462	16.95 dBm
WLAN 5G	5150-5250	16.52 dBm
	5250-5350	17.87 dBm
	5470-5725	17.39 dBm
	5725-5850	12.46 dBm
Bluetooth	2402-2480	5.63 dBm
Bluetooth LE	2402-2480	7.1 dBm
NFC	13.56	10.90 dBuA/m @ 3m
GNSS (GPS, BDS, Galileo, GLONASS, SBAS)	1559-1610	N/A

ITU Designations
GXW, G7W, F9W, D7W, G7D, G1D, D1D, F1D, K1D

Manufacturer

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