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Handheld Terminal

MF-2352

User's manual

1. Safety instructions

Federal Communications Commission (FCC) Statement

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

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device 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.

Contains FCC ID: XMR201706 SC20A

Non-modification Statement

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

SAR notice

The highest SAR value for the device as reported to the FCC is less than 1.6W/kg (limit set by the FCC is 1.6W/kg) when placed next to the body. The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

Taiwan NCC

一般設備(低功率電波輻射性電機管理辦法第 12、14 條)

- 經型式認證合格之低功率射頻電機，非經國家通訊傳播委員會 (NCC) 許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
- 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Battery Warning

The system uses a 3V CR2450 battery mounted on the mainboard to keep time. There is a risk of explosion if the wrong battery type is used when replacing. Dispose of used batteries according to local ordinance regulations.

Li-ion batteries can be dangerous. There is a danger of explosion if the battery is incorrectly replaced. Do not expose to fire or water.

To reduce the risk of fire or burns, do not disassemble, crush, puncture, or short external contacts. Dispose of used batteries according to state or local hazardous waste requirements.

Safety information

Before installing and using the machine, take note of the following precautions:

- Do not place the unit on an unstable surface, cart, or stand.
- Do not block the slots and opening on the unit, which are provided for ventilation.
- Only use the power source indicated on the marking label. If you are not sure, contact your dealer or the Power Company.
- When replacing parts, ensure that your service technician uses parts specified by the manufacturer.
- Do not place anything on the power cord. Place the power cord where it will not be in the way of foot traffic.

CE RF Feature

RF Spec.	NFC	BT3.0+HS	WiFi b/g/n HT20/40	4G (LTE FDD)
Frequency Range	13.56MHz	2402~2480MHz	2402~2482 MHz	Band 1/3/7/8
Max. Output Power (dBm)	NA	10	b:15.77dBm g:15.759dBm n HT20:13.97dBm n HT40:14.75dBm	23dBm±2dB

設備名稱:手持式收銀機/ Model(型號):MF-2352						
單元/ Part name	限用物質及其化學符號/ Hazardous substances' name					
	鉛(Pb)及其化合物/ Lead(Pb) and its compounds	汞(Hg)及其化合物/ Mercury(Hg) and its compounds	鎘(Cd)及其化合物/ Cadmium(Cd) and its compounds	六價鉻(Cr6+)及其化合物/ Hexavalent chromium (Cr6+) and its compounds	多溴聯苯(PBB)/ Polybrominated biphenyls (PBB)	多溴二苯醚(PBDE)/ Polybrominated diphenyl ethers (PBDE)
金屬機構件/ Metal parts	○	○	○	○	○	○
塑料機構件/ Plastic parts	○	○	○	○	○	○
顯示模組/ Display module	○	○	○	○	○	○
電路板組件/ Circuit board components	○	○	○	○	○	○
電源線/其他線材/Power cord /Wire	○	○	○	○	○	○
喇叭/speakers	○	○	○	○	○	○
備考1. "○"係指該項限用物質之百分比含量未超出百分比含量基準值。 備考2. "-"係指該項限用物質為排除項目。						

Contact Information

Partner Tech Corporation
10F, No.233-2, Baoqiao Rd., Xindian Dist., New Taipei City 231, Taiwan
www.partner.com.tw

2. Product Spec.

Item	Description	
System	Processor	ARM Cortex-A7 Quad-Core 1.1 GHz
	Memory	LDDR3: 1GB (Max : 2GB),eMMC: 8GB (Max : 16GB)
	OS	Android 5.1
	Display	5 inch, 1280 x 720 Pixels
	Touch Panel	5 inch, Capacitor Touch Panel (Multi point)
	WLAN	802.11 b/g/n
	Bluetooth	BT 3.0+HS
	GPS	GPS/GNOLASS/BeiDou
	Audio	speaker x1, Microphone x1
Security	Sensor	G-sensor, Light sensor, Vibration
	Processor	ARM Cortex-M3
	Key specification	0-9,Function Key;15 keys include power key
	MSR	Track 1/2/3, bi-directional
	RFID	ISO 14443 Type A/B & ISO 18092 & Mifare I
	IC Card	ISO 7816 & PBOC/EMV compliant
	Printer	High speed ,Low noise,Low voltage
LED indication	Paper Roll	Width: 58mm ,Diameter: 40mm
	RFID indication	4 x LED indicator
Peripherals (Option)	Battery indication	1 x charging indicator
	Customer Display	HTN,GREY,1/4Duty,1/3Nias,Transflective,12 O' clock
	Camera	AF 8.0 M pixels
	Fingerprint	Image sensor 256 x 360 sensor array format
Wireless Communication (Option)	Scanner	1D LED barcode scanner , 2D image barcode scanner
	4G	LTE FDD : Band 1/3/7/8
Power	SIM	1 x SIM card slot
	Power Adapter	DC 9V/2A
	Battery	3.6V/5200mAh Li-ion
External I/O	RTC Battery	CR2450-600mAh
	USB OTG	Micro USB x1 ,support charger
	RS232	Mini USB x1
	Audio	3.5mm audio jack x1 , support CTIA
	Expansion slot	Micro SD x1 (max :128G)
	Function Key	Trigger x1 , Power off x1
	Power	Power Jack x1
Internal I/O	RS232	x1 for Fiscal device
	I2C	x1 for Fiscal device
	Power	DC 3.3V, DC 5V
Environment	Operating Temp.	0°C ~ 40°C
	Charging temperature	0°C ~ 40°C
	Storage Temp.	-20°C ~ 60°C
	Humidity	10% ~ 80%, non-condensing
Operating time	8 hour	
Standby time	120 hour	
Dimension (L x W x H)	238 mm x 90 mm x 68 mm	
Weight	598g (without batteries)	
Certifications	Security & Payment	1.PCI PTS 4.x, 2.EMV L1 & L2, 3.Visa paywave 4.MasterCard paypass, 5.American Express & JCB 6.PBOC L1 & L2, 7.QPBOC L1 & L2, 8.TQM
	Safety,EMC	CE/FCC/NCC/CB

3. Packaging list

1	MF-2352	1 piece	4	USB Line	1 piece
2	Power Adapter	1 piece	5	Thermal Print Paper	1 roll(optional)
3	AC Power Cord	1 piece	6	Rechargeable Battery	1 piece

4. Outlook.



5. Device placement



Water proof mode



the paperroll cover can be opened when the waterproof cover is open first




Reset switch

All IO connected

6. Instructions

Power On

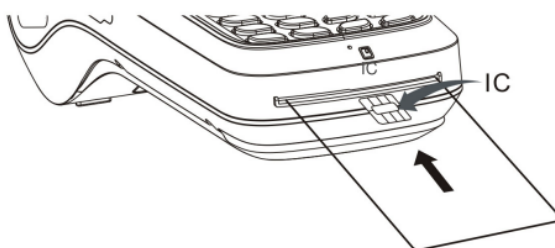
- 1、 Insert the attached power adapter's connector to the MF-2352, linked the AC cord between the adapter and AC power supply socket;
- 2、 Press the power key()until LCD display booting information, system will setup after initialization.

Swiping Card

- 1、 Slide the magnetic card at stable speed, with the magnetic strip upward. 2、 Bi-directional card swiping is supported;

IC Card Read


- 1、 insert the IC card with the chip upward;



Torn Paper

- 1、 Hand and hold the end of the paper along the cutter from left to right around 45 degrees angle of the direction of the tear, the force should be quickly and evenly.

Installation Of Paper

- 1、 Open the paper bucket lid: Unlock the printer cover() by pulling the lever up;
- 2、 Load the thermal paper after open the printer cover. Please notice the paper come from bottom side;
- 3、 Align the sheet of paper out into the guide slot of the cutter, press the printer cover back until a "click" sound is heard;
- 4、 To avoid a paper jam or damage the printer, please use standard printing paper provided by the bank.

Notice

- 1、 Use an outlet with a fuse;
- 2、 Do not damage the power cord and adapter. They can not be used if damaged;
- 3、 When error occurs, please contact technical support. User's attempting to repair the device is not covered within warranty;
- 4、 Before connecting the AC power cord to a power supply outlet, you should check voltage;
- 5、 Do not insert anything into any of the interface of the device, it will seriously damage the device;
- 6、 Do not place the device in direct sunlight, high temperature, humid or dusty place;
- 7、 Please stay away from liquids

7. Function test

Plug Adapter → slide up to unlock screen → click Setting (production mode)

→ Bright Setting → Sleep → choose Never to Main Menu

and then click Production Test Tool again to do each function test

