PROTECH SYSTEMS
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MH-5106

# Quick Reference Guide

5.1 lollipop

prox

Ver. Q2

Packing Checklist

If you discover any item below are damaged or lost, please contact your vendor immediately.

- ☑ MH-5106 Integrated Pad — x1
- ☑ This Quick Reference Guide — x1
- ☑ AC Power Adaptor — x1
- ☑ Hand Strap (Optional) — x1
- ☑ Neck Strap (Optional) — x1

MH-5106 Driver Utilities and User Manual file have been stored in the Integrated Pad system:

File Path: C:\MH-5106_v1.0

Specifications

System

CPU Type	Actions S500 (ARM Cortex A9 R4 CPU)
Memory Support	DDR3L 1GB / 2GB
O.S.	Android 5.1.1 (Linux Kernel 3.10)
Speaker	1W Speaker x 1
Battery Pack	Main battery (7900mAh) & RTC battery
Wi-Fi + Bluetooth module	802.11 a/b/g/n wireless LAN and Bluetooth 4.0 module
G-Sensor	Accelerator sensor
IP Rating	IP54 (front panel only)
Dimension (LxWxT)	259.9 mm x 175.9 mm x 17.7mm
System Weight	838g (without any optional devices attached)
Power Supply	DC 12V/2A/24W

Display

LCD Panel	10.1" LED backlight LCD
Touch Panel	10.1" PCT
Max. Resolution	1280x800 dots WXGA

Integrated Devices (Optional)

Barcode Scanner	Honeywell 2D Barcode scanner
3G Module	3.75G supports SIM card interface (onboard)
NFC Module	NXP N-P300
Rear Camera	5M pixels camera module with autofocus function
MSR Module	Meet ISO 7811, support AAMVA / JIS II format, support single / dual / triple tracks
Smart Card Reader Module	USB port (Meet ISO 7816 & EMV Level 1 & 2 Certification)

Storage (SDIO Interface)

Storage	16GB / 32GB / 64GB eMMC

External I/O Ports

DC-IN Jack	1 x DC-IN Jack
Cradle Connector	1 x POGO pins (1x10 pins)
USB	Standard USB (Type A) x1 for external expansion
SD (Secure Digital)	MicroSD Slot for internal memory expansion
SIM Card Slot	For cellular network services
Audio Jack	Audio Jack x 1

Environment

Operating Temp.	0°C~ 40°C (32°F ~ 104°F)
Storage Temp.	-20°C~ 60°C (-4°F~ 140°F)
Operating Humidity	0%~ 90% (no condensation)

System View

Unit: mm

Front View
Power LED
267.84
188.5
NFC

Rear View
MSR
Smart Card Reader
Camera
Battery Pack

Side View
25.2
Scan Button
Scan Button
Power Button
USB Port
DC-IN

Bottom View
POGO Pins
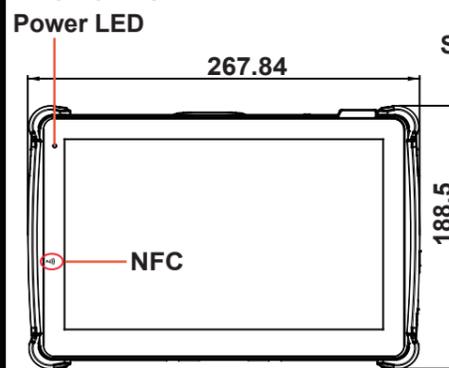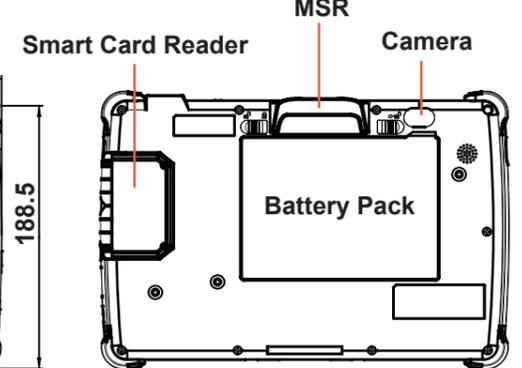
Top View
MSR
Barcode Scanner
Earphone Jack
17.7
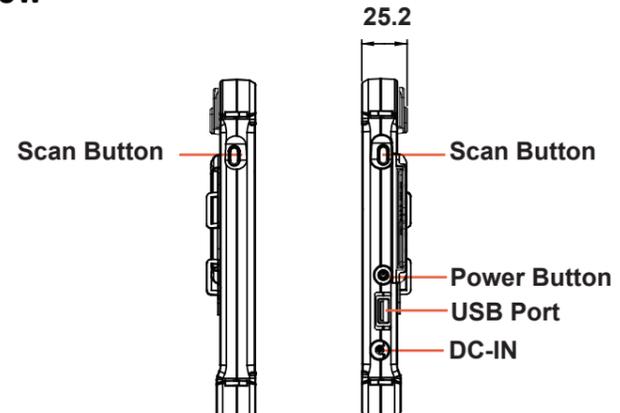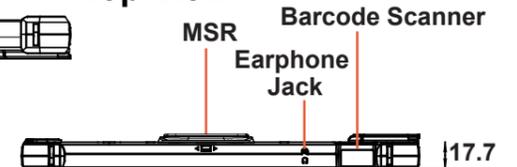
MH-5106

10.1" Integrated Pad Powered By ARM Cortex-A9

Quick Setup

Installing Battery

Step 1. Use your left hand to slide to unlock left-side battery switch.

Step 2. Push sliding tab to the right side and long press on it and hold it.

Step 3. Use a fingertip of your right hand to remove the battery from the slim opening.

Step 4. Replace a new battery onto back of Pad and the right-side locking switch snaps into place automatically.

Step 5. Slide the left-side battery switch to the right to secure and lock up the replaced battery to complete.

Note 1: The factory default battery cycle life guarantees to retain 80 percent of its original capacity after the battery has been charged and discharged for 300 times.

Note 2: Batteries are considered consumerables and the limited warranty for MH-5106 battery is 1 year only.

Safety Precaution

The following messages are reminders for safety on how to protect your system from damages and to extend a long life of the system.

1. Check the Cable Voltage
- Make sure the range of operating voltage between AC 100V ~ 240V. Otherwise, the system could be damaged.

2. Environmental Conditions
- Place your MH-5106 on a sturdy, level surface. Be sure to allow enough space to have easy access around the system.
- Avoid extremely hot or cold place to install the system.
- Avoid exposure to sunlight for a long period of time or in an airtight space.
- Avoid the system from any heating device or using it outdoors in a cold winter day.
- Bear in mind that the operating ambient temperature is from 0 ~ 40°C (32 ~ 104°F).
- Avoid moving the system rapidly from a hot place to a cold place and vice versa because condensation may come from inside of the system.
- Don't place the system close to any radio active device in case of signal interference.

3. Handling
- Avoid putting heavy objects on top of the system.
- Don't allow foreign objects to fall into this product.
- If water or other liquid spills into this product, unplug the power cord immediately.

4. Good Care
- When the outside of the case is stained, remove the stain with a neutral washing agent with a dry cloth.
- Never use strong agents such as benzene and thinner to clean the system.
  If heavy stains are present, moisten a cloth with diluted neutral washing agent or with alcohol and then wipe thoroughly with a dry cloth.
- If dust has been accumulated on the outside, remove it by using a special made vacuum cleaner for computers.
- Don't contact the surface of capacitive touch before entering your operation system, or capacitive touch may have position problems for electrostatics interface.
- Don't exchange the M/B battery by yourself or serious damage may incur.

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

WARNING! Some internal parts of the system may have high electrical voltage. And therefore we strongly recommend that qualified engineers can open and disassemble the system. The LCD and Touchscreen are easily breakable, please handle them with extra care.