



A80 Reference Guide

12-15-2021

V1.3

Preface

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Revision History

Date	Version	Description
08-21-2020	V1.0	Initial release.
01-04-2021	V1.1	Updated formatting and document organization.
03-05-2021	V1.2	Updated doc name, intro, Tech Details and Specs. table, added cert. and unified with existing A80 doc.
12-15-2021	V1.3	Added microSD trademark and updated stand information.

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1. Introduction

The A80 is a SmartDesktop payment terminal powered by Android™ that can be used as a countertop PIN pad or an indoor portable device. Packed with the latest PCI PTS 5.x, SRED, and NFC contactless certifications, A80 delivers the highest payment security and protects transaction privacy. Equipped with a built-in camera, high definition 4-inch touchscreen display, and multiple network connectivity options, A80 delivers the best user experience to the modern consumers.

1.1 Purpose

This reference guide provides information about:

- Hardware Functionality
- Installation
- Communications
- Answers to frequently asked questions

1.2 Intended Audience

This guide is intended for use by:

- Software engineers who develop and maintain the payment application designs for the US payment card industry.
- Sales Executives and Support who sell and support the device.
- Independent Sales Organizations who sell terminals and conduct end user terminal training.

1.3 Acronyms and Terms

Acronym	Definition
Bluetooth®	The <i>Bluetooth®</i> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by PAX Technology, Inc. is under license. Other trademarks and trade names are those of their respective owners.
DHCP	Dynamic Host Configuration Protocol - A network management protocol used on IP networks. The DHCP server dynamically assigns an IP address and other network configuration parameters to each device on the network.
EMV®	Europay, Mastercard, and VISA. EMV® is a registered trademark or trademark of EMVCo, LLC in the United States and other countries around the world. The EMV trademark is owned by EMVCo, LLC.
IMEI	The IMEI (International Mobile Equipment Identity) is a unique number for identifying a device on a mobile network. It has 15 digits and is assigned to every GSM phone — CDMA devices have a MEID number.
LAN	Local Area Network
Micro SD	Removable flash memory card used to store information.
MSR	Magnetic Stripe Reader
NFC	Near Field Communication
POS	Point of Sale or Point of Service
SAM	A Secure Access Module (or Secure Application Module) is based on SmartCard Integrated circuits and is used to enhance the security and cryptography performance in devices, commonly in devices needing to perform secure transactions, such as payment terminals. It can be used for cryptographic computation and secure authentication against smart cards or contactless EMV cards.
SIM	Subscriber Identity Module Card – A smart card that stores data GSM cellular network subscribers.
SSID	Service Set Identifier - The name for a Wi-Fi or WLAN network. Mobile devices look for all networks in range when they attempt to connect to local Wi-Fi.
WAN	Wide Area Network - Cellular phone data networks run on a WAN. It covers a broad area and many devices in that area.
Wi-Fi™	A trademarked term used to describe the wireless networking technology that allows computers and other devices to communicate over a wireless signal. Based on IEEE802.11 standards.

2. Technical Details and Specifications

The technical details and specifications for the A80 are listed in the following table.

Feature	A80-MBA-RD5-12AA Description	A80-MBA-RD5-13AA Description
Operating System	PAXBiz powered by Android 6.0, unified mainboard	PAXBiz powered by Android 7.1, unified mainboard
CPU	Application CPU: Quad-core Cortex-A53, 1.2GHz Security CPU: Cortex M3	Application CPU: Quad-core Cortex-A53, 1.2GHz Security CPU: Cortex M3
Memory	1GB DDR + 8GB eMMC	1GB DDR + 8GB eMMC
Communications	Wi-Fi (2.4G) (optional) Dial (PSTN) LAN <i>Bluetooth</i> [®] 4.2, Supports BLE wireless technology (optional)	Wi-Fi (2.4G) (optional) Dial (PSTN) LAN <i>Bluetooth</i> [®] 4.2, Supports BLE wireless technology (optional)
Display	4-Inch Color Display 800 x 480 Pixels Capacitive Touchscreen	4-Inch Color Display 800 x 480 Pixels Capacitive Touchscreen
Audio	1 x Speaker	1 x Speaker
Camera/Scanner	0.3MP Fixed Focus Front Camera, Reads 1D & 2D Codes	0.3MP Fixed Focus Front Camera, Reads 1D & 2D Codes
Card Slots	3 x SAM, 1 x Micro SD Card Slot, Supports up to 32GB	3 x SAM, 1 x Micro SD Card Slot, Supports up to 32GB
Card Reader Types	EMV [®] MSR Contactless	EMV [®] MSR Contactless
Peripheral Ports	1 x HOST USB 2.0 1 x Micro USB 2.0, OTG 1 x PIN pad 1 x RS232 1 x LAN 1 x Line 1 x Phone	1 x HOST USB 2.0 1 x Micro USB 2.0, OTG 1 x PIN pad 1 x RS232 1 x LAN 1 x Line 1 x Phone

Feature	A80-MBA-RD5-12AA Description	A80-MBA-RD5-13AA Description
Certifications	PCI PTS 5.x, SRED EMV L1 & L2 EMV Contactless L1 Discover D-PAS MasterCard Contactless Visa payWave American ExpressPay IC MasterCard TQM Interac Flash L2 UnionPay Quics	PCI PTS 5.x, SRED EMV L1 & L2 EMV Contactless L1 Discover D-PAS MasterCard Contactless Visa payWave American ExpressPay IC MasterCard TQM Interac Flash L2 UnionPay Quics
IK/IP Rating	N/A; Provided for terminals with outdoor use case only	N/A; Provided for terminals with outdoor use case only

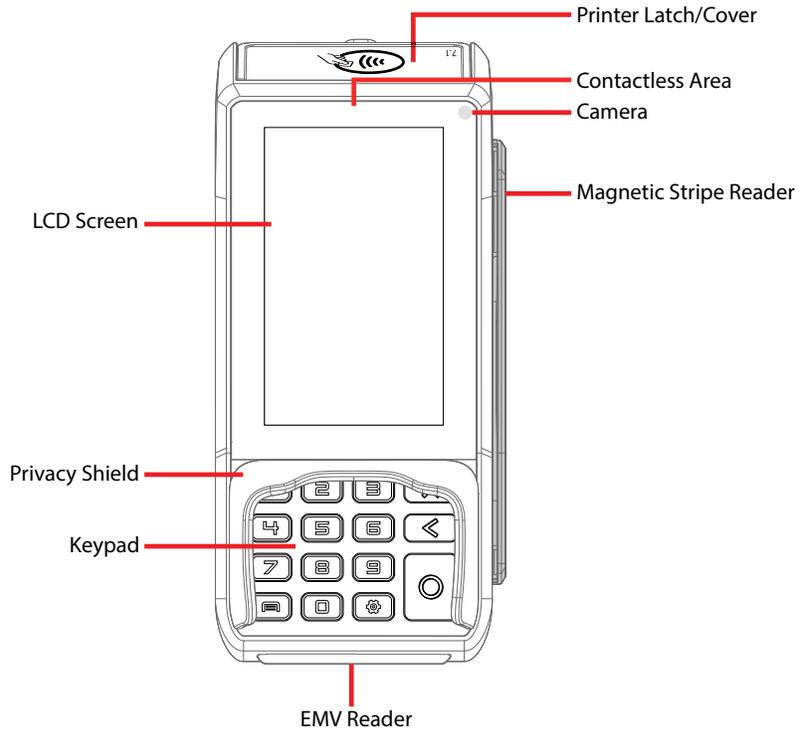
3. A80 Hardware Overview

The following section provides information on the A80's hardware functionalities.

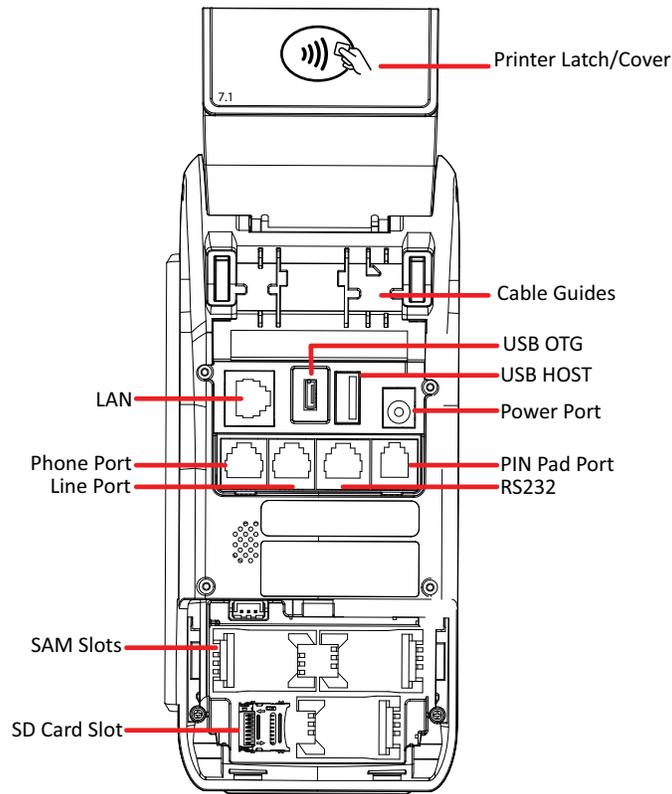
3.1 A80 Side Views

The following images point out the various hardware features of the A80.

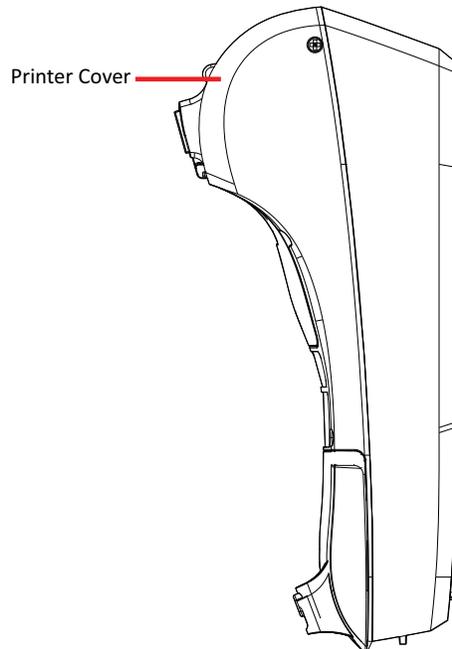
3.1.1 FRONT VIEW



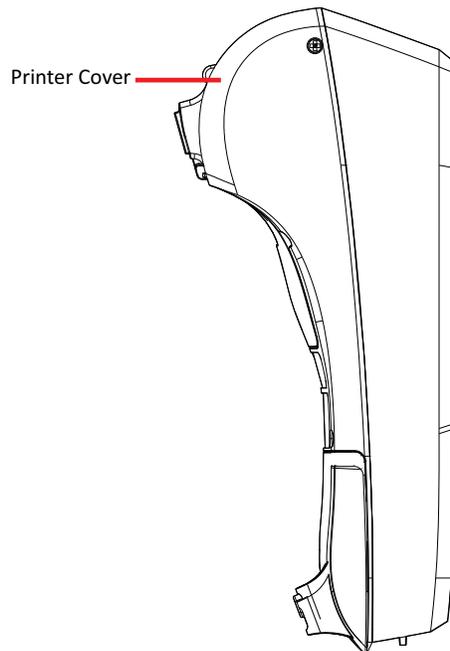
3 .1.2 BACK VIEW



3 .1.3 LEFT SIDE VIEW

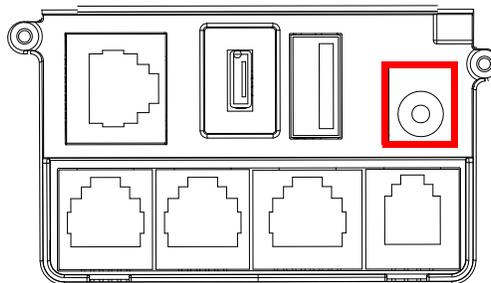


3.1.4 RIGHT SIDE VIEW



3.2 AC Power Connection

The A80 can be powered by (5V, 1A) power cable into the power port on the back of the device.



Please Note:

- Connecting the power source before all the other cables are connected first may result in damage to the terminal or connected devices.
- Disconnecting the power while applications are downloading may result in improper application download, or the flash memory becoming damaged.

WARNING

The A80 AC power connection can only support an approved 5V, 1A power supply. Using a third-party power supply and/or a power supply with incorrect voltage and amperage could damage the device and void its warranty.

3.3 Terminal Identification

This section provides information on terminal identification numbers and where to locate them. For an in-depth breakdown of terminal serial numbers and part numbers, please see [“Appendix A: Part Number and Serial Number Keys”](#) on page 57.

3.3.1 SERIAL NUMBER LOCATION

The A80 serial number is located on a sticker on the back of the device. Additionally, the same sticker appears on the outside of the terminal box.



3.3.2 REVISION NUMBER LOCATION

The A80 revision number, when applicable, is located on a sticker on the back of the device. Additionally, the same sticker appears on the outside of the terminal box.



3.3.3 PART NUMBER LOCATION

The A80 part number is located on a sticker on the back of the device. Additionally, the same sticker appears on the outside of the terminal box.



3.4 A80 Warranty

All PAX terminals include a standard two-year warranty from date of purchase. For a list of associated device RMA fees and other FAQs, please see the [PAX RMA Portal](#).

WARNING

The warranty period for terminals and associated equipment is 2-years from date PAX sold the terminal to the distributor, not the current terminal owner's date of purchase from the distributor.

3.5 Camera/Scanner

The A80 comes with a 0.3MP camera capable of scanning bar codes and QR codes.

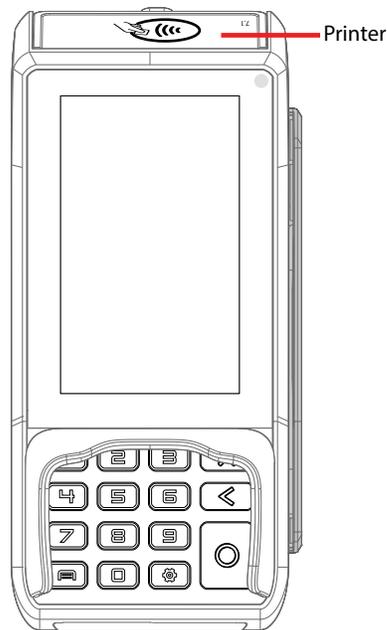
3.5.1 CAMERA LOCATION



3.6 Printer

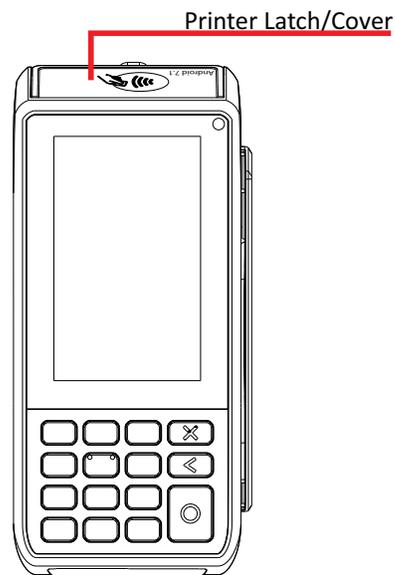
The A80 includes a high-speed thermal printer with a print speed of 90mm/s and a paper width of 58mm/ paper diameter of 50mm.

3.6.1 PRINTER LOCATION

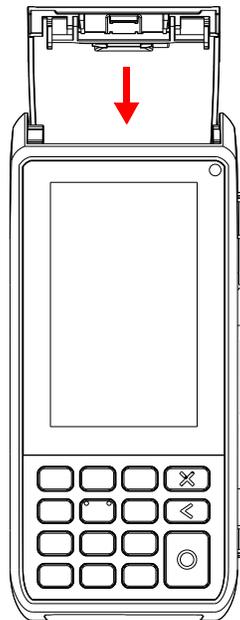


3 .6.2 PRINTER ROLL INSTALLATION

1. Pull the paper latch toward the front of the device to open the hatch.



2. Install paper roll; ensure that the paper is coming out from the top of the roll before closing the hatch.



3.7 SIM, SAM, and/or SD Card

The A80 supports the following card types and sizes:

Terminal and Option	SD Size	SAM Size	SIM Size
A80, 3 x SAM slots	Micro SD (1)	Mini SIM Sized (3)	N/A

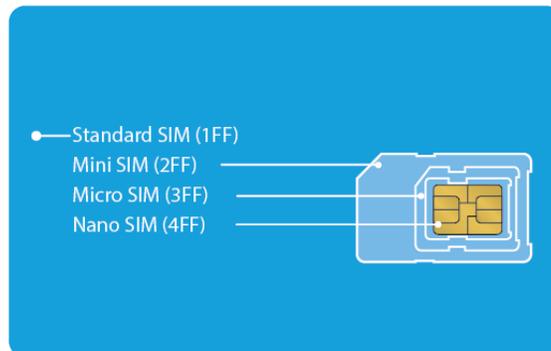
3.7.1 SIM/SAM, AND SD CARD SIZING

While PAX devices support a range of SIM card sizes, the maximum SAM card size supported in all devices is the Mini SIM size and the maximum SD card size supported in all PAX devices is the Micro SD card.

3.7.1.1 SIM/SAM Card Sizes

SIM/SAM Cards come in the following sizes:

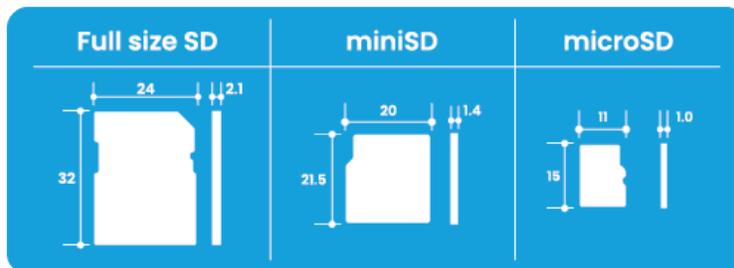
- Standard SIM (1FF): (85.6mm × 53.98mm × 0.76 mm)
- Mini SIM (2FF): (25mm x 15mm x 0.76mm)
- Micro SIM (3FF): (15mm x 12mm x 0.76mm)
- Nano SIM (4FF): (12.3mm × 8.8mm × 0.67mm)



3.7.1.2 SD Card Sizes

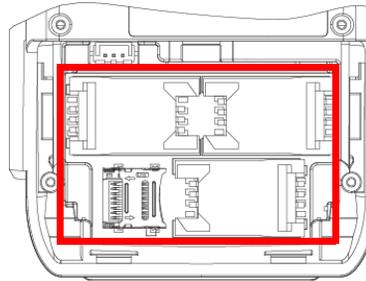
SD Cards come in the following sizes:

- Full Size: (32.0×24.0×2.1mm)
- Mini SD: (21.5×20.0×1.4mm)
- Micro SD: (15.0×11.0×1.0mm)



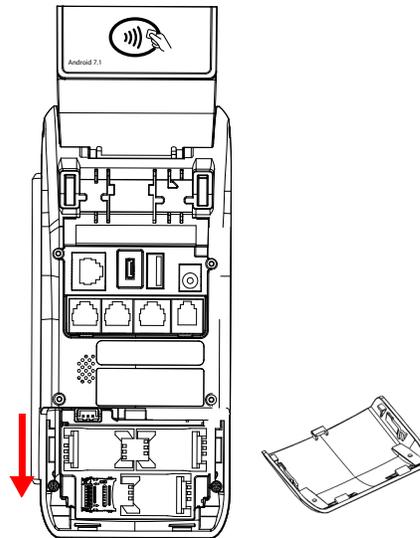
3.7.2 SAM, AND SD CARD SLOT LOCATION

The SAM and Micro SD card slots are located at the back of the device.

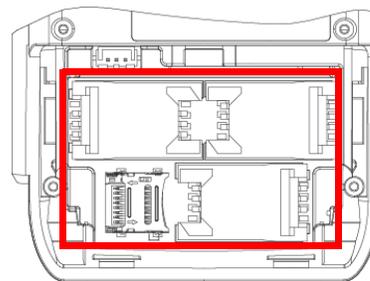


3.7.3 SAM, AND SD CARD INSTALLATION

1. Slide the back cover down to remove it from the terminal.



2. Insert the SAM and/or SD card into the slot with contacts facing down and the clipped corner of the card facing the upper right.



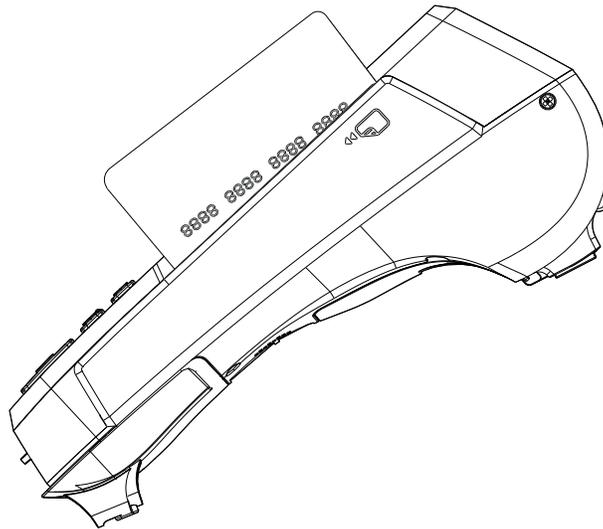
3.8 Card Readers

This section describes the following card readers available on the A80:

- Magnetic Stripe Reader (MSR)
- EMV Card Reader
- NFC (Near Field Communication)/Contactless Card Reader

3.8.1 MAGNETIC STRIPE READER

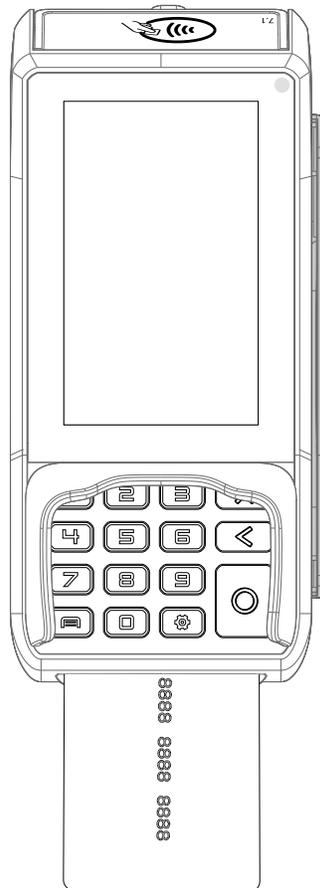
The Magnetic Stripe Reader (MSR) is located on the right side of the device. The reader includes triple track reading and bidirectional reading.



To use the MSR, swipe the card from either left to right or right to left with the magnetic stripe facing away from the front of the terminal.

3 .8.2 EMV CARD READER

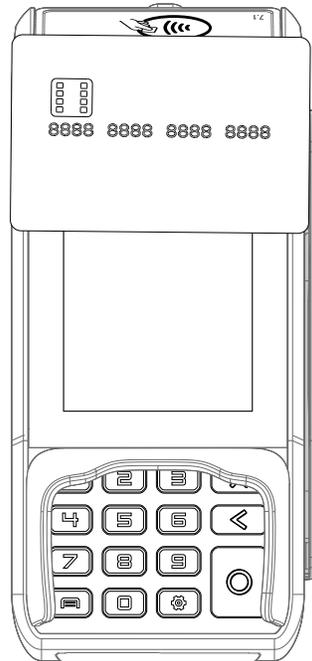
The A80 includes an EMV card reader at the bottom of the device.



To use the EMV card reader, insert the card fully into the reader with the metallic contacts facing up and towards the device. Make sure that the card is fully inserted into the card reader while reading the card.

3 .8.3 NFC/CONTACTLESS CARD READER

The A80 has a contactless card reader with an RF antenna located at the top of the device. The read area is indicated by the contactless icon.



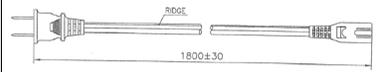
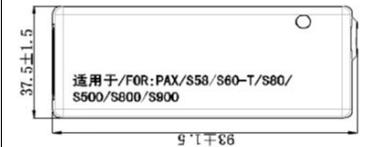
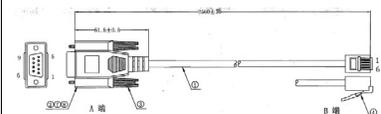
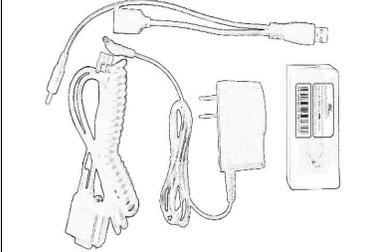
To use the contactless card reader, place the card roughly parallel to the contactless area. For best results, place as close to the contactless area as possible with the card centered.

3.9 A80 Accessories

The following section provides information on a few of the major A80 accessories. For ordering of accessories, terminals or replacement parts, please see the [A80 Ordering Guide](#) located in Confluence.

3.9.1 CABLES

This section describes A80 compatible cables, their part numbers for identification purposes only, and their use cases. Note that for wireless communication only, no cable is necessary.

Cable	Part Number	Use Case	Image
Power Cable	200311020000015	For supplying power only	
Power Supply	200310110000085	Power Supply for the A80 power cable	
RJ11 Cable, 3m	200204030000059	For network communication	
Download Cable, DB9 to RJ11, Serial	200204030000027	For data communication	
Injection and Programming Kit	CU100-NO-100	Used for programming; Includes the USB to Barrel Connector Power Cable and Serial to RJ11 Adapter	

Cable	Part Number	Use Case	Image
Type-A USB Male to Micro C Type USB Male Cable, 1 Meter	200204030000263	Used for programming with the CU100 in addition to standard power cable	

3.9.2 A80 PS200 STAND

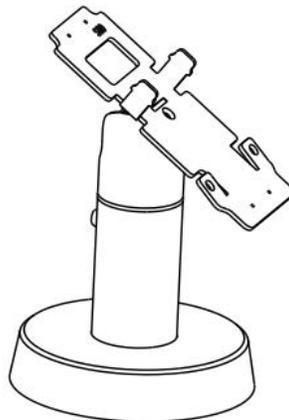
The PS200 Terminal Stand mounts and secures the POS terminal to the counter. The stand can be manually tilted and rotated for optimal viewing angles. A fastening screw locks the terminal to the stand, helping protect against unauthorized removal or tampering of the terminal.

3.9.2.1 Mounting Options

The stand design provides two mounting options:

- Option 1: Place the base pole directly onto the counter top. Drilling is required.
- Option 2: Place a weighting iron to create a moveable stand that rests on top of the counter. No drilling required.

For more details, please reference the Quick Set Up Guide or contact [PAX Customer Support](#).



4. Basic Operating Instructions

This section provides information and step-by-step instructions for the A80's basic operations.

4.1 Intended Use Case

The A80 is intended for indoor, attended use only.

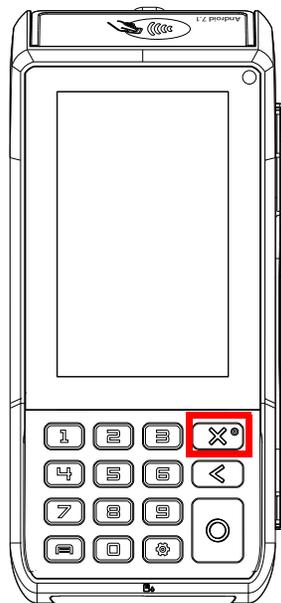
IP/IK Rating	Operating Environment	Storage Environment
IP/IK Ratings are done for terminals with an outdoor use case only.	Temperature: -10°C ~ 50°C (14°F ~ 122°F) Humidity: 10% ~ 93% (without condensation)	Temperature: -20°C ~ 70°C (-4°F ~ 158°F) Humidity: 10% ~ 93% (without condensation)

Please Note: Operating the terminal outside of its intended use case and operating environment for a prolonged period of time will void the terminal warranty.

4.2 Terminal Location

Position the A80 on a counter-top, desktop, or tabletop. Keep the terminal away from direct sunlight, excessive dust, moisture, and heat. Avoid locating the terminal near electrical devices that might introduce interference such as microwave ovens and blow dryers.

4.3 Powering the Device ON/OFF



- **Power ON:** Press and hold the power button down for 3-5 seconds and then release.
- **Power OFF:** Press and hold the power button down for 3-5 seconds and then release.

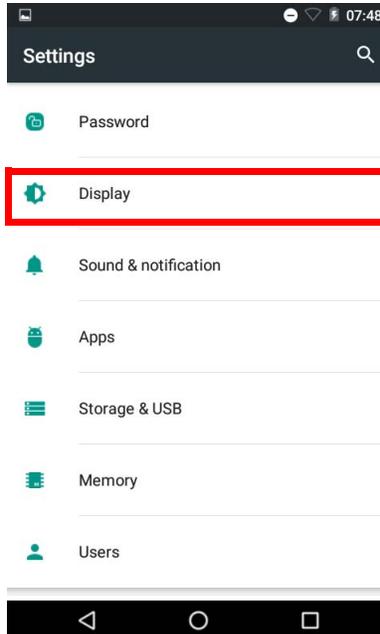
Please Note: When first connected to a power source, the terminal will automatically power on.

4.4 Adjusting the Display Brightness

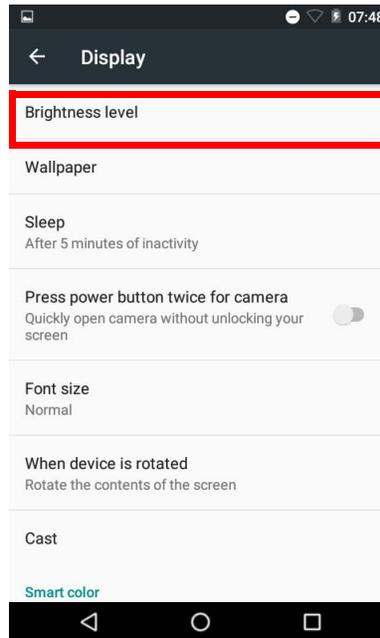
1. Select **[Settings]**.



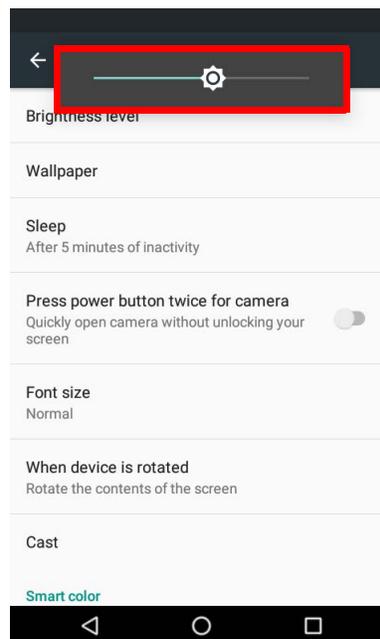
2. Scroll down and select **[Display]**.



3. Select **[Brightness level]**.



4. Slide the toggle either right or left to brighten or dim the display.

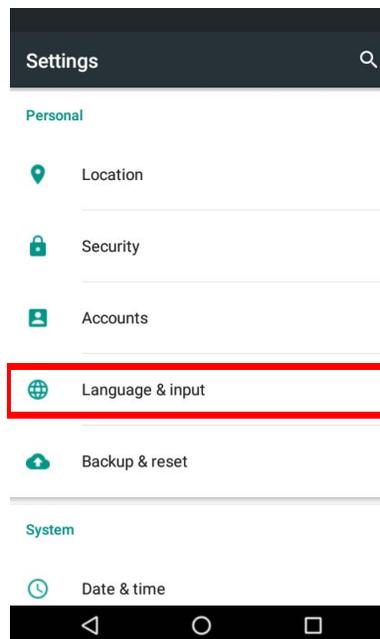


4.5 Turning Key Beep On/Off

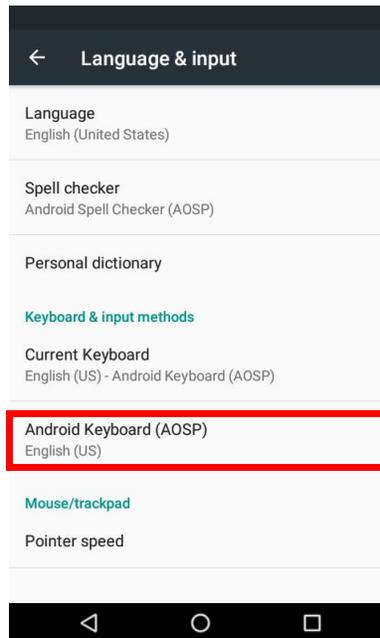
1. Select **[Settings]**.



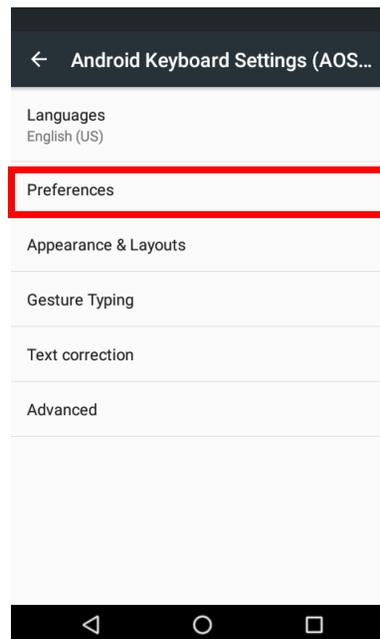
2. Select **[Language & input]**.



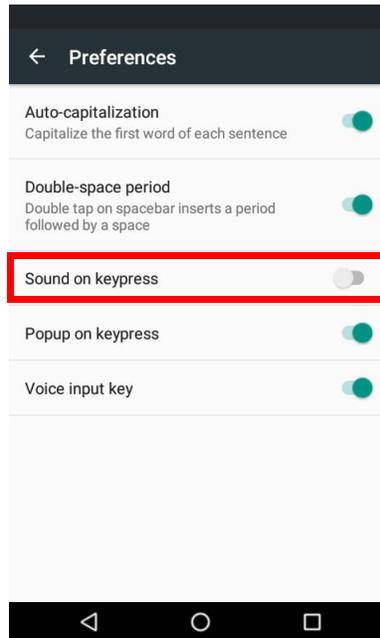
3. Select [**Android Keyboard (AOSP)**].



4. Select [**Preferences**].



5. Slide the toggle to turn on/off **[Sound on keypress]**.

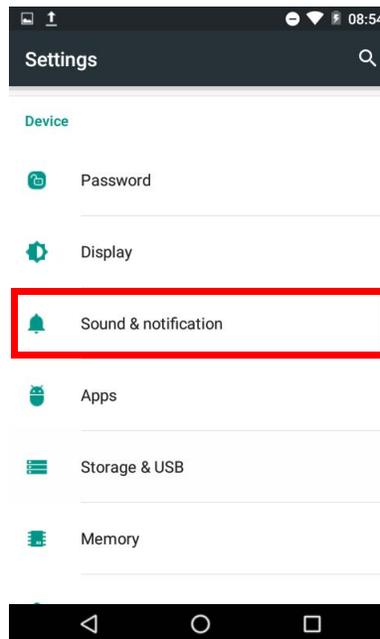


4.6 Adjusting the Volume

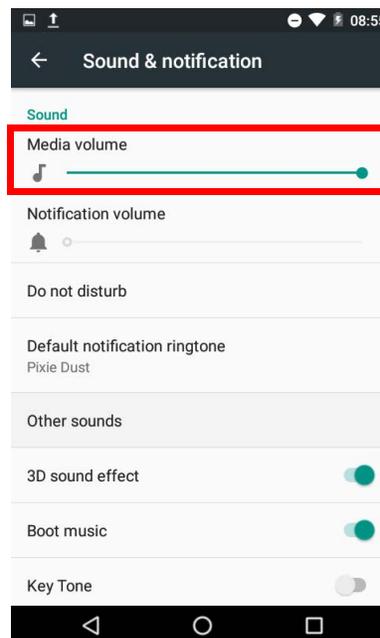
1. Select **[Settings]**.



2. Scroll down and select **[Sound & notification]**.



3. Slide the **[Media volume]** toggle either right or left to increase or decrease the terminal's volume.

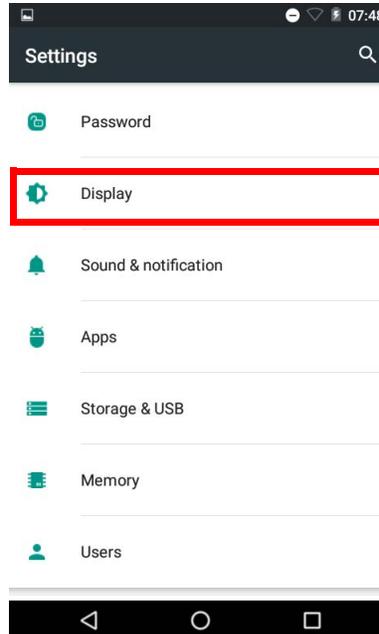


4.7 Setting the Screen Sleep Time

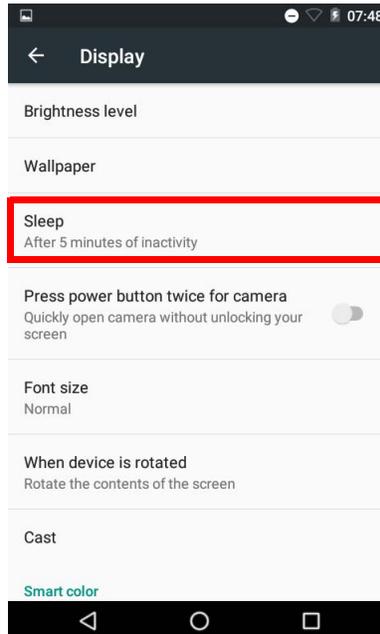
1. Select **[Settings]**.



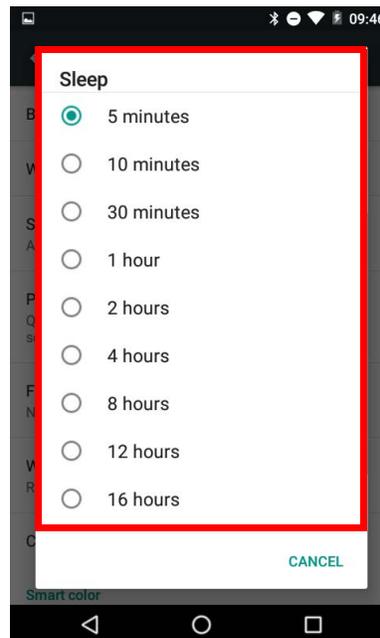
2. Select **[Display]**.



3. Select **[Sleep]**.

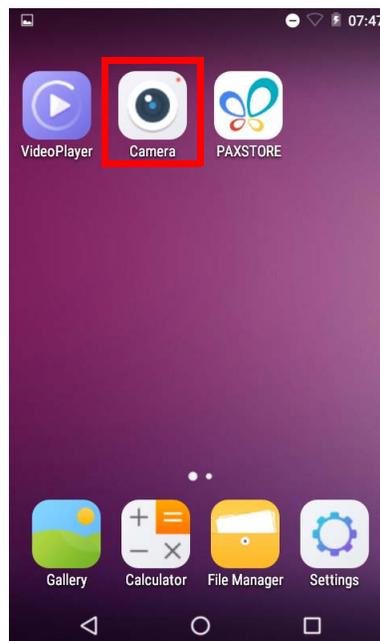


4. Select desired sleep time.

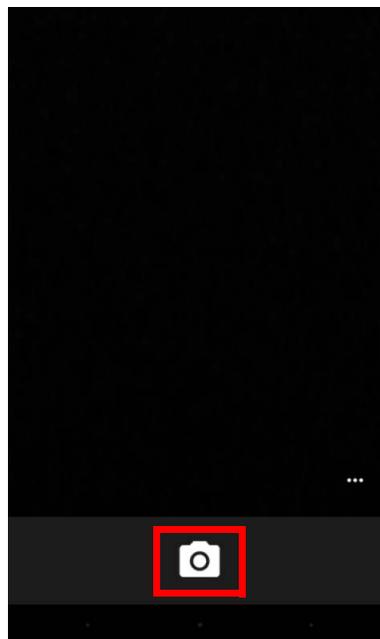


4.8 Taking a Photo

1. Select **[Camera]**.



2. Tap the **[Camera]** icon to take a photo.



4.9 Cleaning the Device

WARNING

Do not use industrial strength or abrasive cleaner as it may damage or scratch the device.

- Do not immerse the device in water or liquid.
- Do not spray water or cleaner into EMV Card Reader or ports.
- To clean the device, apply distilled water or mild glass cleaner onto a soft, lint-free cloth and gently wipe terminal.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

5. Communications Setup

The A80 supports Ethernet and Wi-Fi for network and Internet access. Wi-Fi is a wireless computer network that links two or more devices using wireless communication to a local area network (LAN) within a limited area, such as a store or office building. Available access types of Wi-Fi on the A80 are DHCP, Static IP, Manual Static IP, and Manual Proxy. The following sections include step-by-step procedures for setting up each of these communication types.

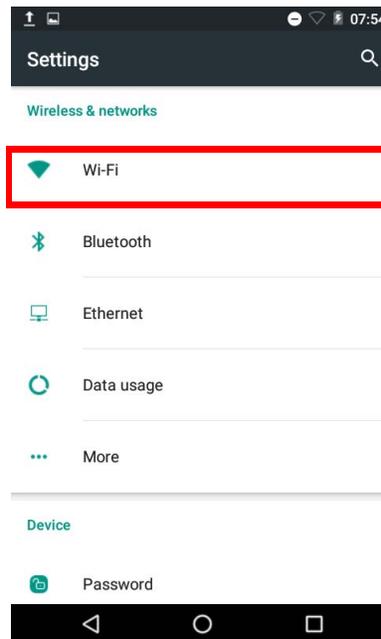
5.1 DHCP

The A80 supports DHCP setup for network and Internet access. DHCP stands for Dynamic Host Configuration Protocol. DHCP is a network management protocol used in IP networks. The DHCP server dynamically assigns an IP address and other network configuration parameters to each device on the network.

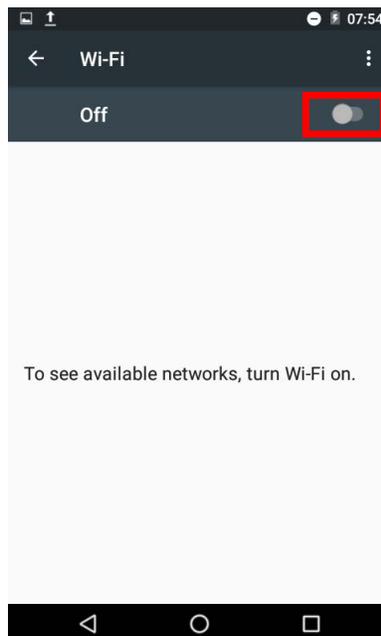
1. Select **[Settings]**.



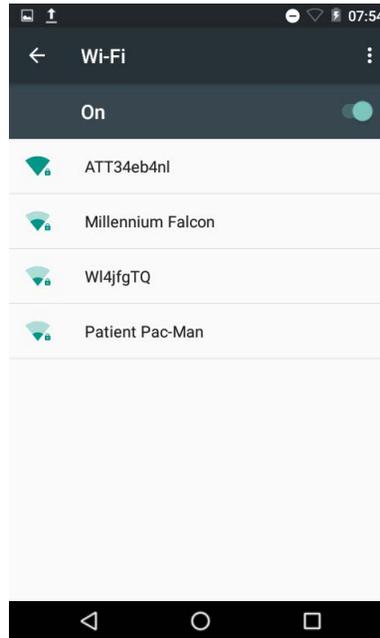
2. Select **[Wi-Fi]**.



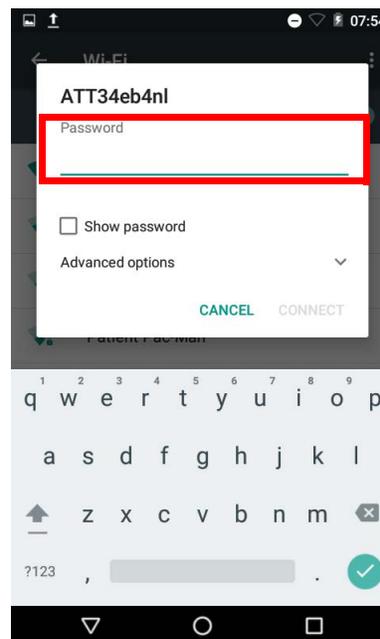
3. Slide the **[Wi-Fi]** toggle right to enable Wi-Fi.



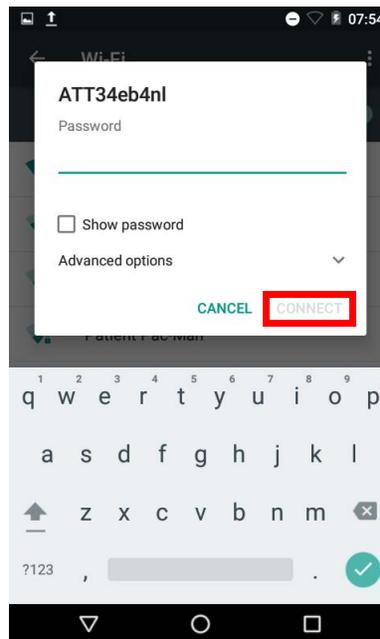
4. Select desired network.



5. Enter network password.



6. Select **[CONNECT]**.



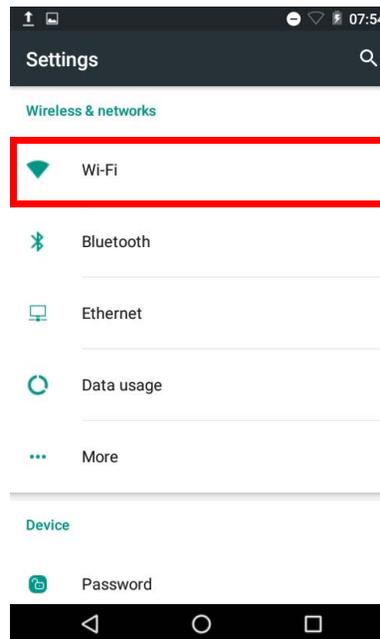
5.2 Static IP

The A80 supports Static IP setup for network and Internet access. Static IP addresses allow network devices to keep the same IP address all the time instead of automatically assigning IP addresses such as in a DHCP setup.

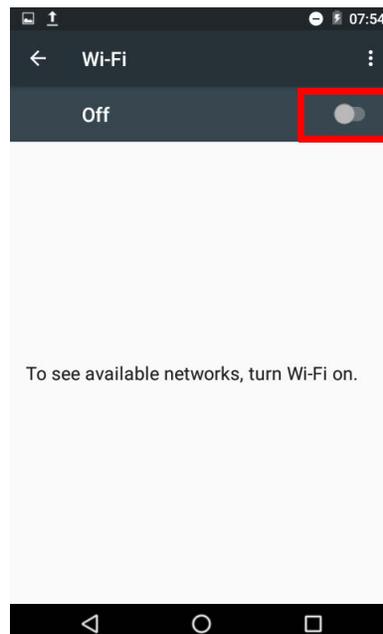
1. Select **[Settings]**.



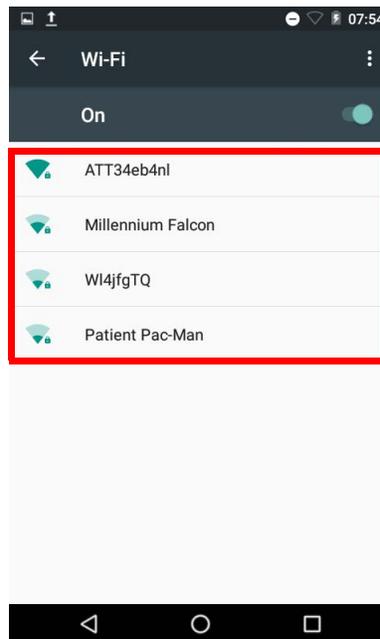
2. Select **[Wi-Fi]**.



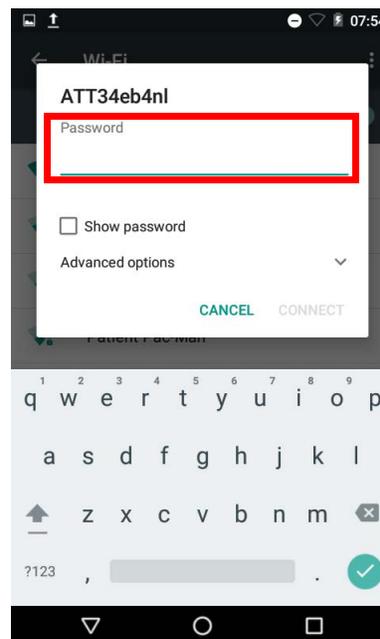
3. Slide the **[Wi-Fi]** toggle right to enable Wi-Fi.



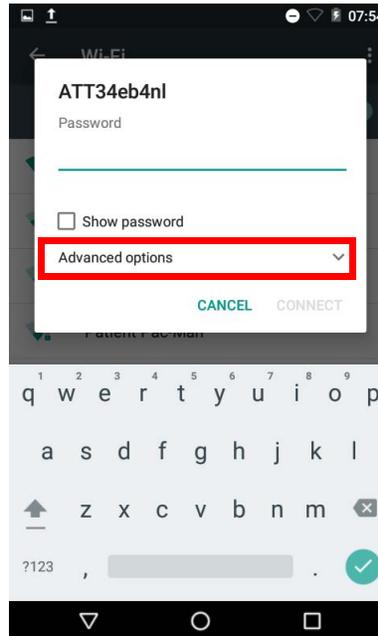
4. Select the desired Wi-Fi network.



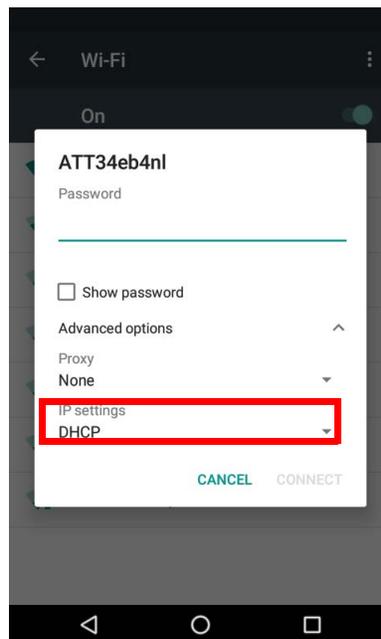
5. Enter network password.



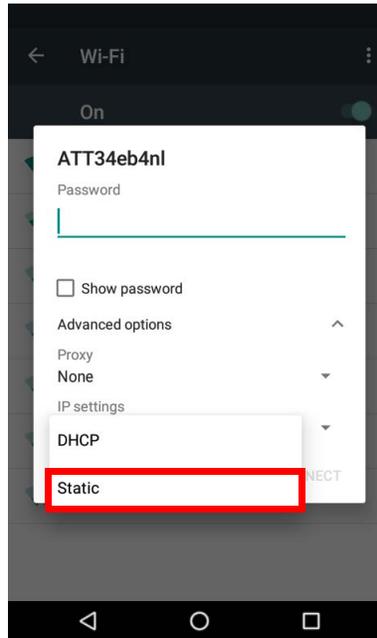
6. Select **[Advanced options]**.



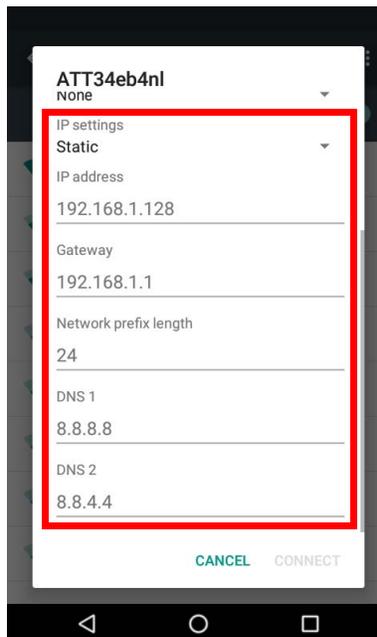
7. Scroll to select **[IP Settings]**.



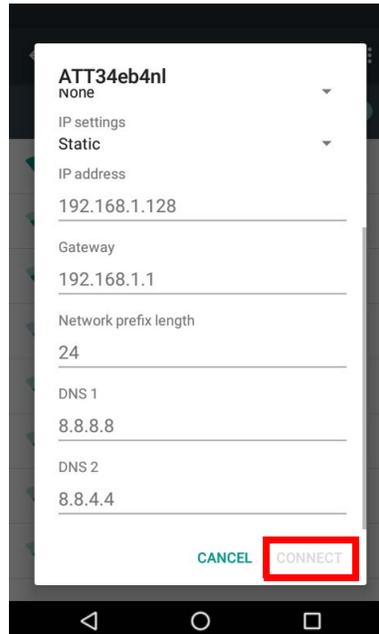
8. Select **[Static]**.



9. Enter the **[IP address]**, **[Gateway]**, **[Network prefix length]**, **[DNS 1]**, and **[DNS 2]**.



10. Select [**CONNECT**].



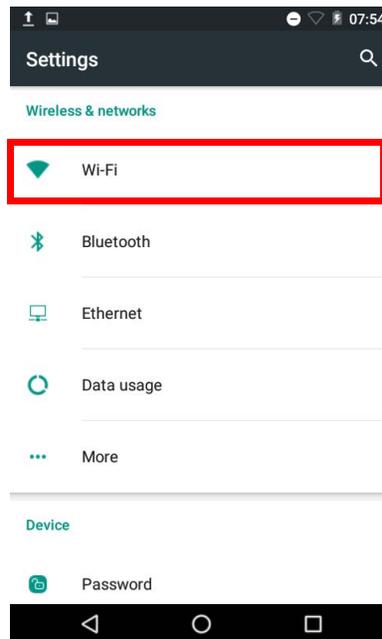
5.3 Manual Static IP

If the broadcast SSID is disabled on an access point, the terminal will not display the SSID under available Wi-Fi network listings. In this case, it is necessary to manually configure the terminal for Static IP connection types.

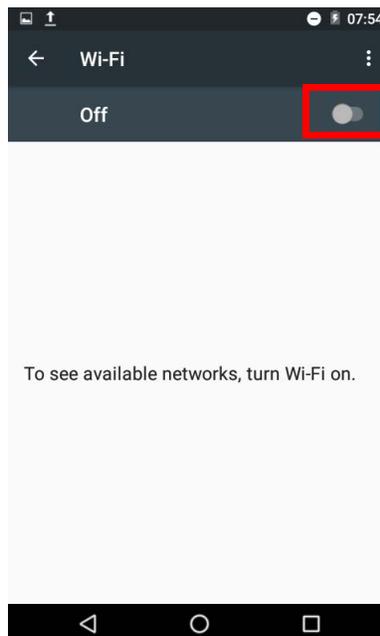
1. Select [**Settings**].



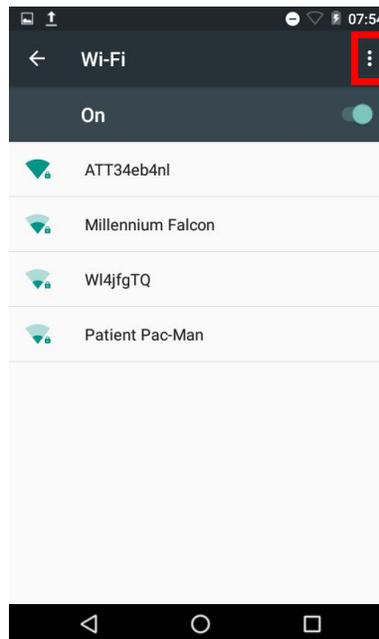
2. Select **[Wi-Fi]**.



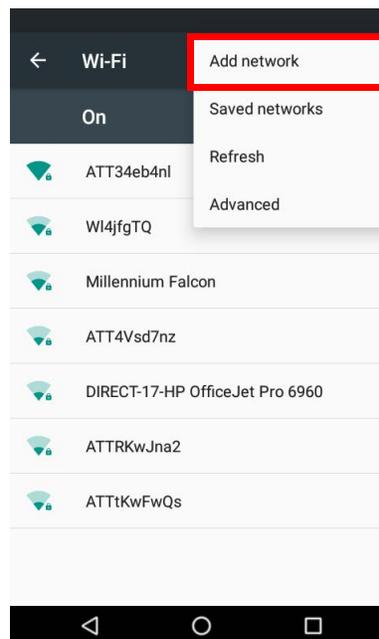
3. Slide the **[Wi-Fi]** toggle right to enable Wi-Fi.



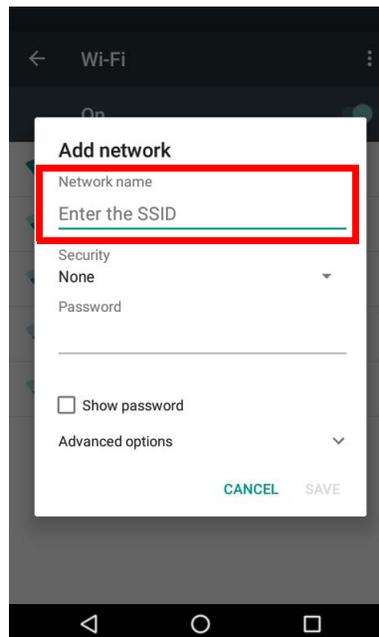
4. Select the horizontal dots in the top-right hand corner.



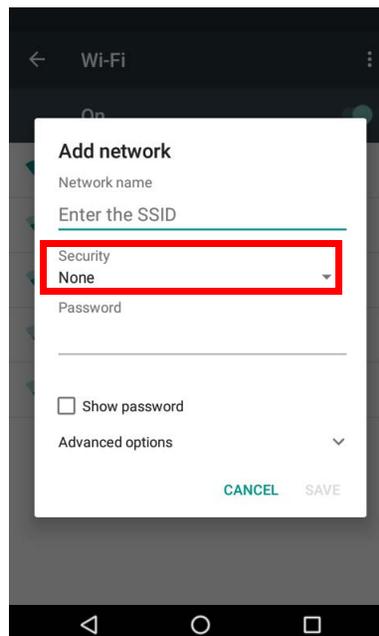
5. Select **[Add network]**.



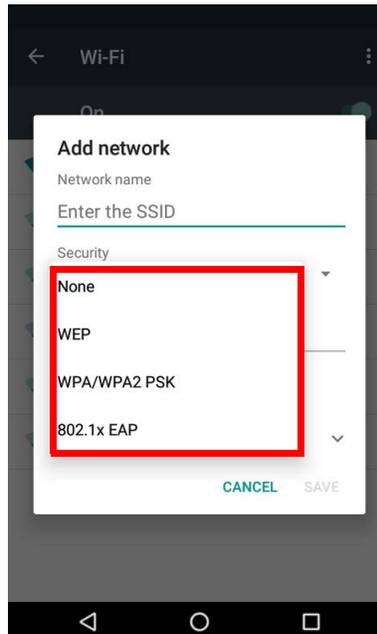
6. Enter the case-sensitive network [SSID].



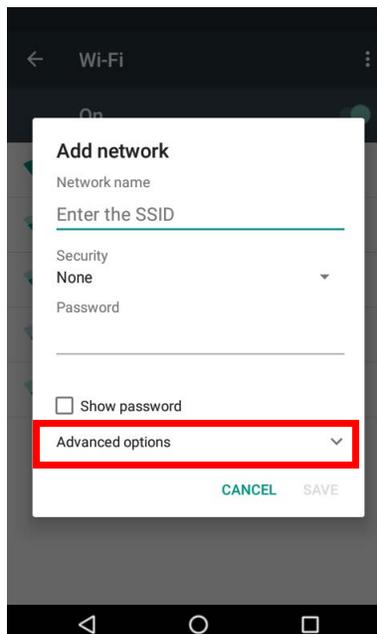
7. Select [Security].



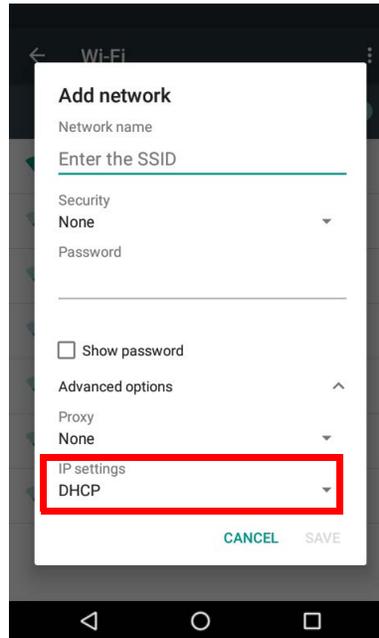
8. Select the security type from the pull-down menu. Selections include WPA/WPA2 PSK, 802.1 x EAP, FT PSK, FT EAP, WAPI PSK, WAPI CERT.



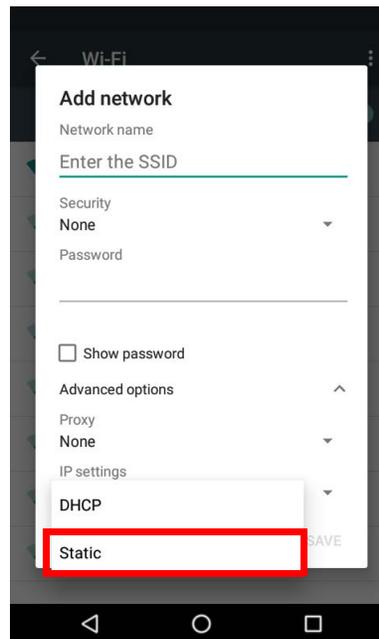
9. Select **[Advanced options]**.



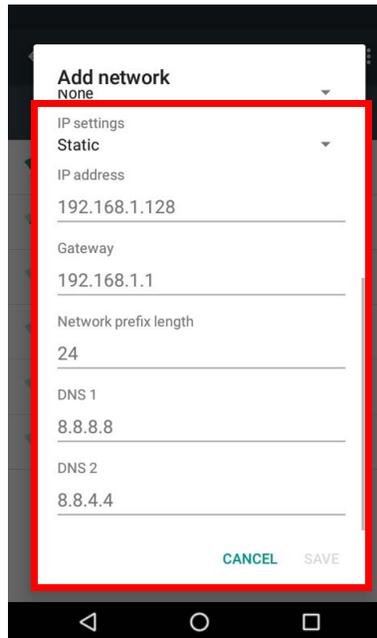
10. Select **[IP settings]**.



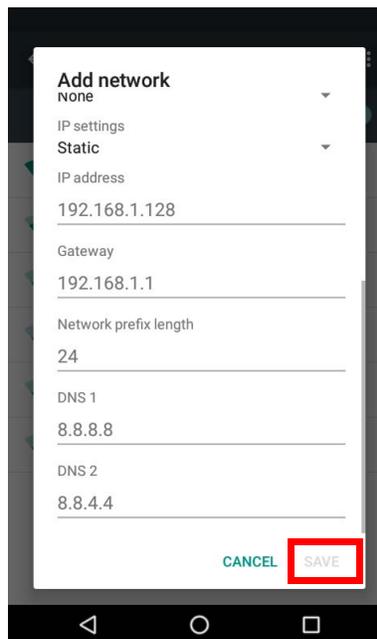
11. Select **[Static]**.



12. Enter the [IP address], [Gateway], [Network prefix length], [DNS 1], and [DNS 2].



13. Select [SAVE].



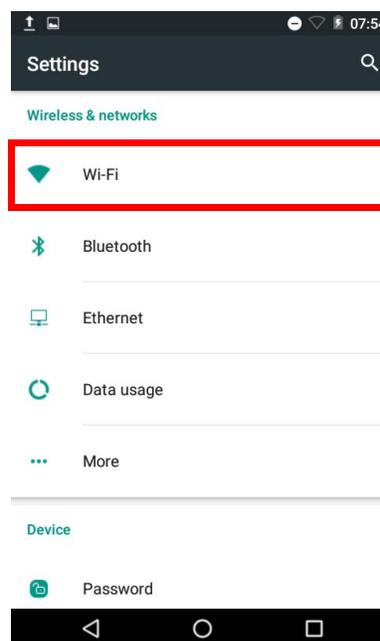
5.4 Proxy

The A80 supports a proxy setup. In this case, another computer, or proxy server, acts as a hub through which the Internet requests for the A80 are processed. By connecting through the server, the device sends its requests to the server which, in turn, processes the request and then returns the response to the device. In this way, the server acts as an intermediary between the A80 and the Internet.

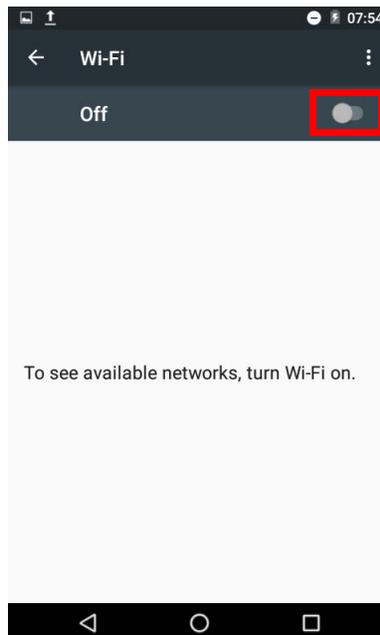
1. Select **[Settings]**.



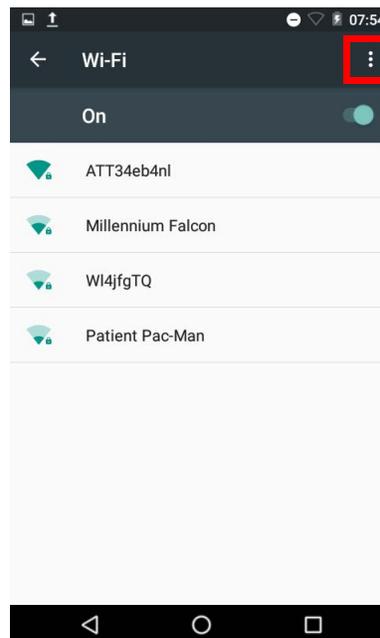
2. Select **[Wi-Fi]**.



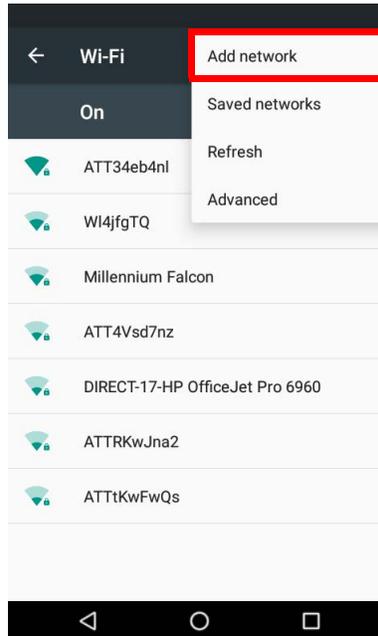
3. Slide the Wi-Fi toggle in the top right-hand corner to enable Wi-Fi.



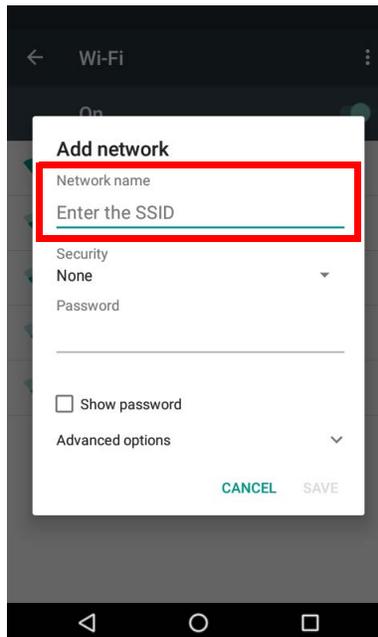
4. Select the horizontal dots in the top right corner.



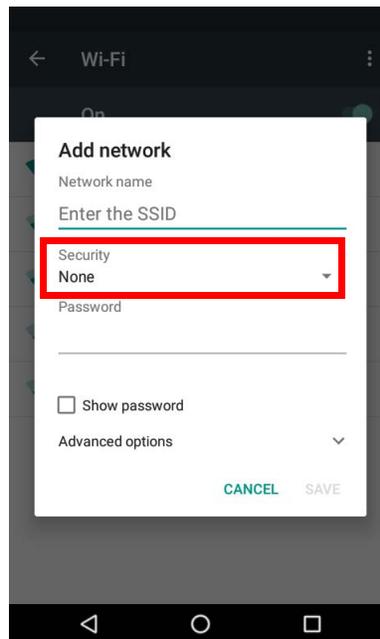
5. Select **[Add network]**.



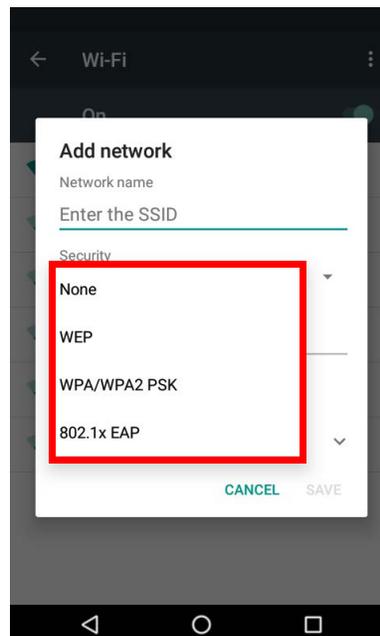
6. Enter the case-sensitive network **[SSID]**.



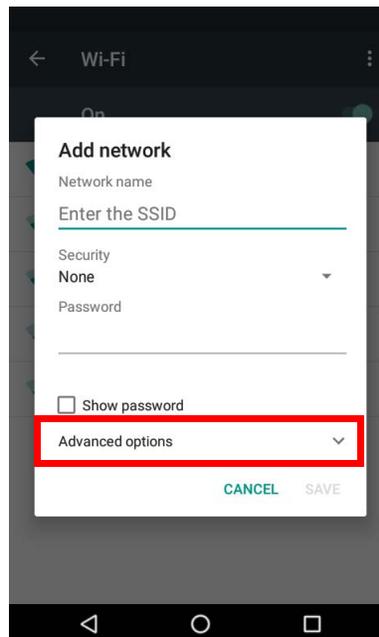
7. Select **[Security]**.



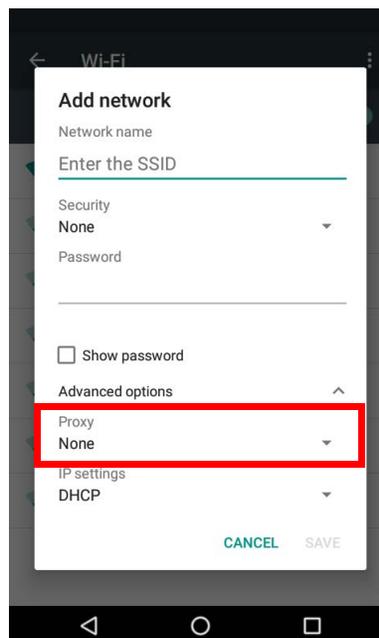
8. Select the security type from the pull-down menu. Selections include WPA/WPA2 PSK, 802.1 x EAP, FT PSK, FT EAP, WAPI PSK, WAPI CERT.



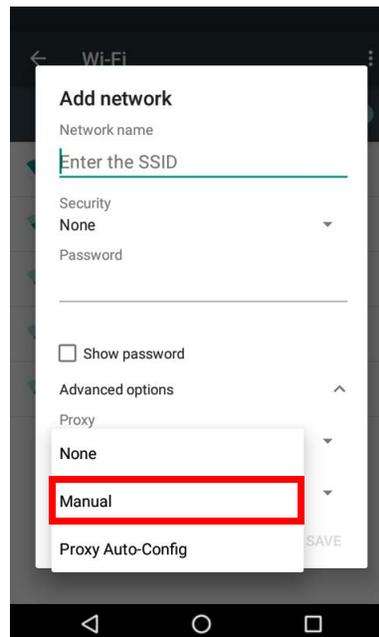
9. Select **[Advanced options]**.



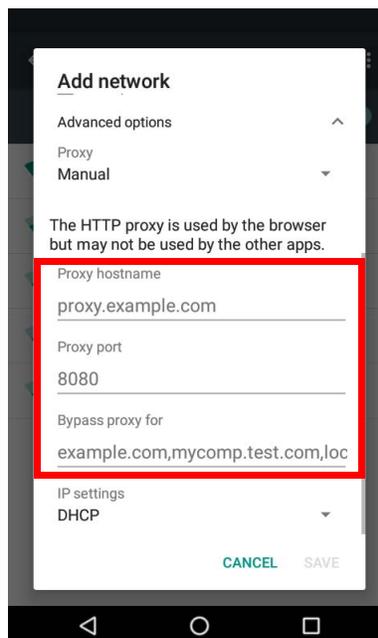
10. Select **[Proxy]**.



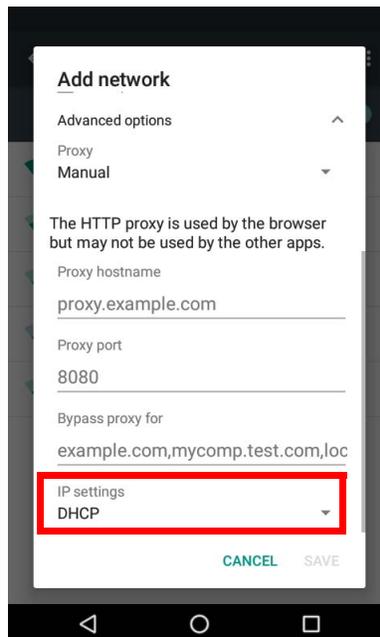
11. Select **[Manual]**.



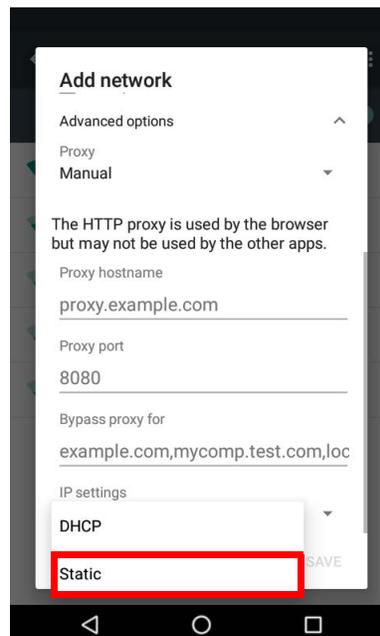
12. Enter **[Proxy hostname]**, **[Proxy port]**, and **[Bypass proxy]**.



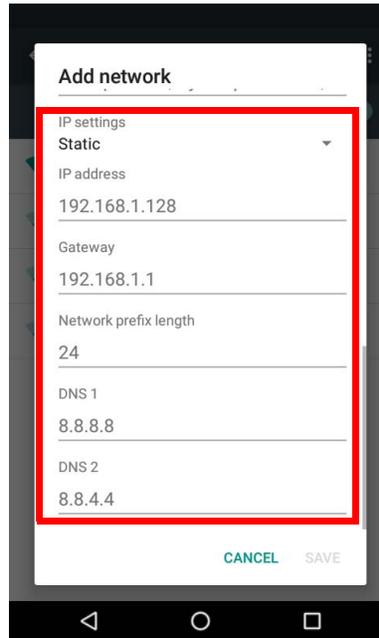
13. Scroll to select **[IP settings]**.



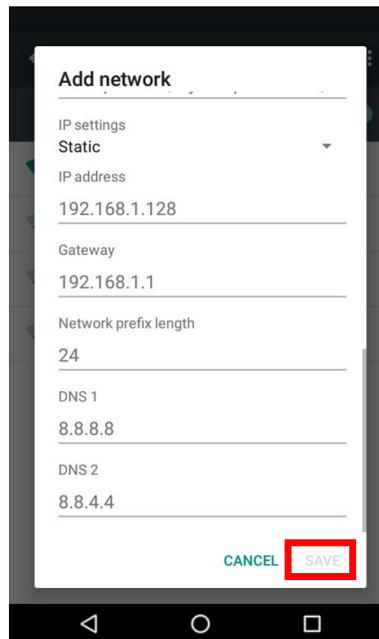
14. Select **[Static]**.



15. Enter the [IP address], [Gateway], [Network prefix length], [DNS 1], and [DNS 2].

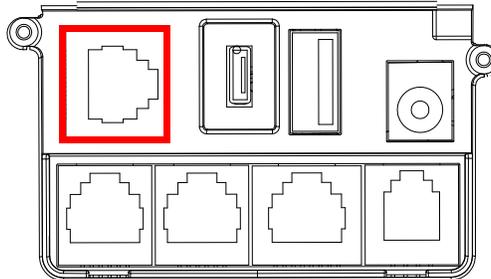


16. Select [SAVE].



5.5 Ethernet

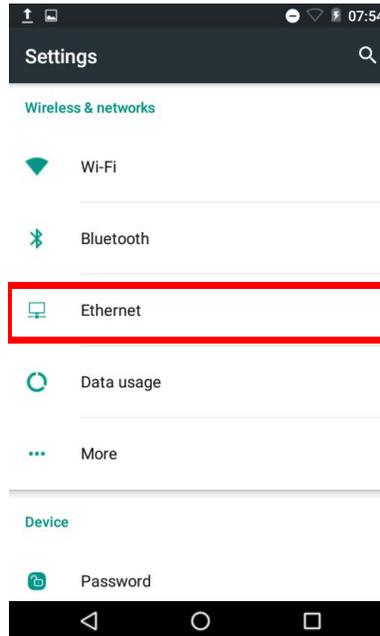
1. Plug the Ethernet cable into the LAN port on the back of the device.



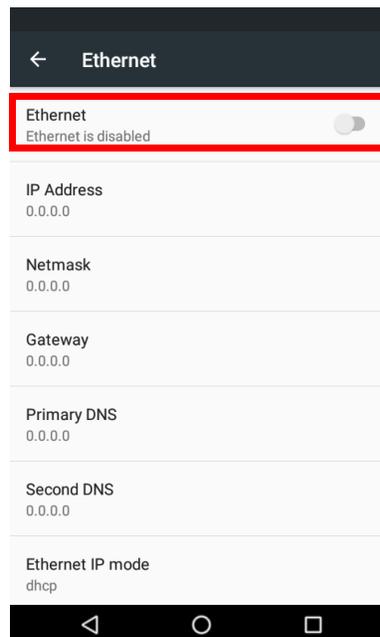
2. Select **[Settings]**.



3. Select **[Ethernet]**.



4. Slide the toggle to enable Ethernet.



6. Frequently Asked Questions

This section provides answers to frequently asked questions.

1. What is the PAXSTORE?

The PAXSTORE is an online marketplace for terminal applications and provides terminal management solutions. The PAXSTORE connects merchants and their PAX terminals with the opportunity to purchase and download applications. It also provides application developers a way to upload applications to be available online and supports terminal management with download control and parameter configuration.

2. Can the A80 download applications from the PAXSTORE?

Yes, the A80 uses the PAXSTORE client application installed on the A80 terminal to access the PAXSTORE. It will display available applications on the PAXSTORE for download and supports applications configured to be pushed from the PAXSTORE which may or may not be displayed on the store.

3. Can the A80 download applications from BroadPOS?

Currently the A80 does not support terminal application downloads from BroadPOS.

4. The terminal displayed “Error message: Login failed, terminal (SN:nnnnnnnnnn) not registered.” What does this mean?

This usually means the serial number has not yet been added to the PAXSTORE or the serial number may require additional attention on the PAXSTORE. Please contact service support to resolve this error message.

5. The printer paper comes out, but nothing is printed.

If the paper is coming out of the terminal but nothing is printed this usually means the thermal paper is installed backwards and needs to be turned around. Open the paper door on the back of the terminal, remove paper roll, set the paper to have the paper pull from the top of the roll, then pull approximately 3" of paper out from the roll. Then place the roll into the terminal with the paper pulling from the top of the roll. After, close the lid and tear off the excess paper. Reprint the transaction and verify the transaction is printed on the receipt.

6. The power cord is plugged in, but the terminal will not turn on.

There can be several causes:

- The AC transformer is defective - try another AC transformer and see if this works.
- The power cord is defective - try another power cord.

7. The terminal is not able to connect to Wi-Fi.

If the terminal is not connecting to the internet, please review all the Wi-Fi settings in the terminal to match the Wi-Fi network. Another step is to turn off the power to the access point and the terminal for about 3 minutes and then turn back on the power. Wait approximately 2 minutes and then check the connection. Also, the SSID and the password are case sensitive so please be sure to check these. If all the settings are correct, verify that there is Wi-Fi coverage where the terminal is located. Try moving the terminal closer to the Wi-Fi access point to see if the terminal connects. If it connects when the terminal is relocated, then either another Wi-Fi access point needs to be added to the network or the existing access point needs to be relocated to support good Wi-Fi coverage for the terminal location.

8. Can the A80 be integrated with a POS or ECR device?

The A80 can be integrated with a POS or ECR device using the PAX POSDK SDK.

9. What size is the thermal paper roll?

The thermal paper roll is 2-1/4" wide x 1-1/2" diameter and approx. 50' Length.

10. Is the A80 available in other colors?

The A80 is available in the white and gray color combination. Orders over 5000 units can be produced in custom colors.

11. What are the TNS and KIM keys?

These are Canadian keys.

12. Which RJ11 Phone Jack connects to the phone service provider?

The line RJ11 dial port should be connected to the dial tone service provider wall jack. The phone port can be connected to another terminal, phone or fax machine.

13. Can the terminal print bar codes and QR Codes?

The terminal supports printing bar codes and QR codes.

14. Is the A80 waterproof?

The A80 terminal is not waterproof.

15. Are there overlays available for the A80 terminal?

No overlay is needed the terminal already has an ADA compliant keypad.

16. Is it possible to use images on receipts for the A80?

The A80 supports receipt header images downloaded from the PaxStore parameter file. Image maximum size is 150 pixels wide by 80 pixels high in a .png format. For customer developed applications this is up to them to configure this ability.

17. What bar codes are supported for the A80?

The following bar codes types are supported on the A80 terminal. Code reading validation test occurred using 10cm/3.9in distance.

- 2D Scanner module: can scan 1D and 2D barcodes; EAN-13, EAN-8, UPC-A, UPC-E, Code39, Code93, Code128.
- QR Type: PDF417, DataMatrix.