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Panther Tablet POS Hardware Connection Manual

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Welcome

Welcome to the Panther Hardware Connection Guide. This guide explains how to install the peripheral equipment needed to use Panther POS on your Android tablet.

The following table lists hardware you can use with Panther POS.

Equipment	Purpose	Supported models available from
Barcode scanner	Scan product barcodes	NRS
Cash drawer	Take cash payments.	NRS
Credit Card Processor	Swipe credit cards.	General availability
Receipt printer	Print receipts.	NRS
USB hub	Connect peripheral equipment to your Android tablet.	General availability

Compatible Hardware

There is a wide variety of POS peripheral equipment available, however NRS only recommends certain models that have been tested with Panther POS. (Other equipment may work with Panther POS, but is not officially supported by NRS.)

The following table lists the hardware that is compatible with the Panther POS.

Device	Compatible Hardware
USB Hub	Any USB hub should work (see here for required specifications), however the Vilcome 8 in 1 USB C Hub Multiport Adapter is recommended.
Barcode Scanner	NRS recommends the Zebex Z-8072 and Zebex Z-3272 plus scanners; these models are available from the NRS online store.
Receipt Printer	NRS recommends the Bematech LR2000 printer ; this model is available from the NRS online store.
Cash Drawer	The official NRS Cash Drawer is recommended. Note: Power for the cash drawer is supplied via the receipt printer, so you need a receipt printer to be able to use the cash drawer.
Credit Card Processor	The PAX S300 and PAX A35 are the only officially supported credit card devices.

Purchasing Peripheral Equipment

NRS Peripheral Equipment

The NRS barcode scanner, NRS receipt printer and NRS cash drawer are available from NRS; either directly from the [NRS Online Store](#), or from Amazon.

Equipment	NRS Store	Amazon
Barcode Scanner	NRS Fixed-mount Barcode Scanner NRS Hand-held Barcode Scanner	
Receipt Printer	NRS Thermal Receipt Printer	NRS Thermal Receipt Printer
Cash Drawer	NRS Cash Drawer	NRS Cash Drawer

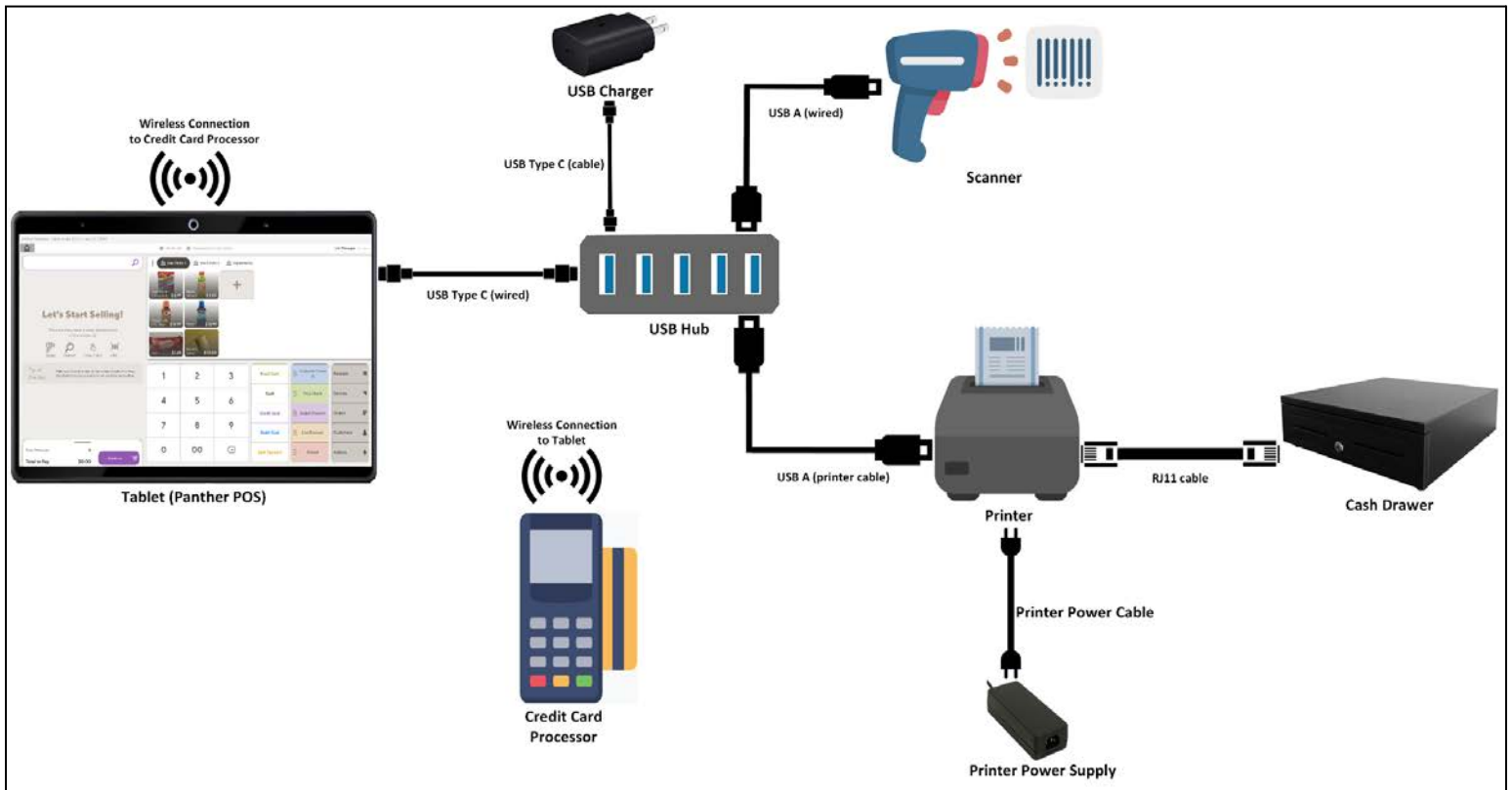
Other Peripheral Equipment

The credit card processor and USB hub are generally available, see the relevant slides ([Connecting a Credit Card Processor](#), [Using a USB Hub](#)) for more details and recommended models.

Connecting Peripheral Equipment

Wiring Diagram



The following schematic diagram shows how the Android tablet that is running Panther POS can be connected to the peripheral equipment that is required to run your POS.



See the following sections for peripheral equipment hardware and connection details.

Using a USB Hub

The reason you need a USB hub to connect multiple peripheral devices to your Android tablet and keep it charged at the same time, because the USB socket on the tablet is a single **Type C USB**, however the peripheral devices connect via a **Type A USB** cable.

Type A USB Connector	Type C USB Connector
	

The USB hub connects to the **Type C USB** socket on your tablet but provides **Type A USB** sockets for the peripheral devices to plugin to.



The hub is included FREE with the NRS Panther Accessory Pack available for purchase in nrsmarket.com or through your sales agent. If you are going to use a different model, make sure the USB hub has:

- An external power supply.
- At least two USB sockets; for the scanner and the printer.

Ideally, the USB hub should also have:

- An HDMI socket.
- An Ethernet LAN socket.

Connecting Devices to Panther POS

Initially when Panther POS is installed, all the devices in the main **Settings screen** appear **Disconnected**.



As you connect devices, you will see their status change to **Connected**.



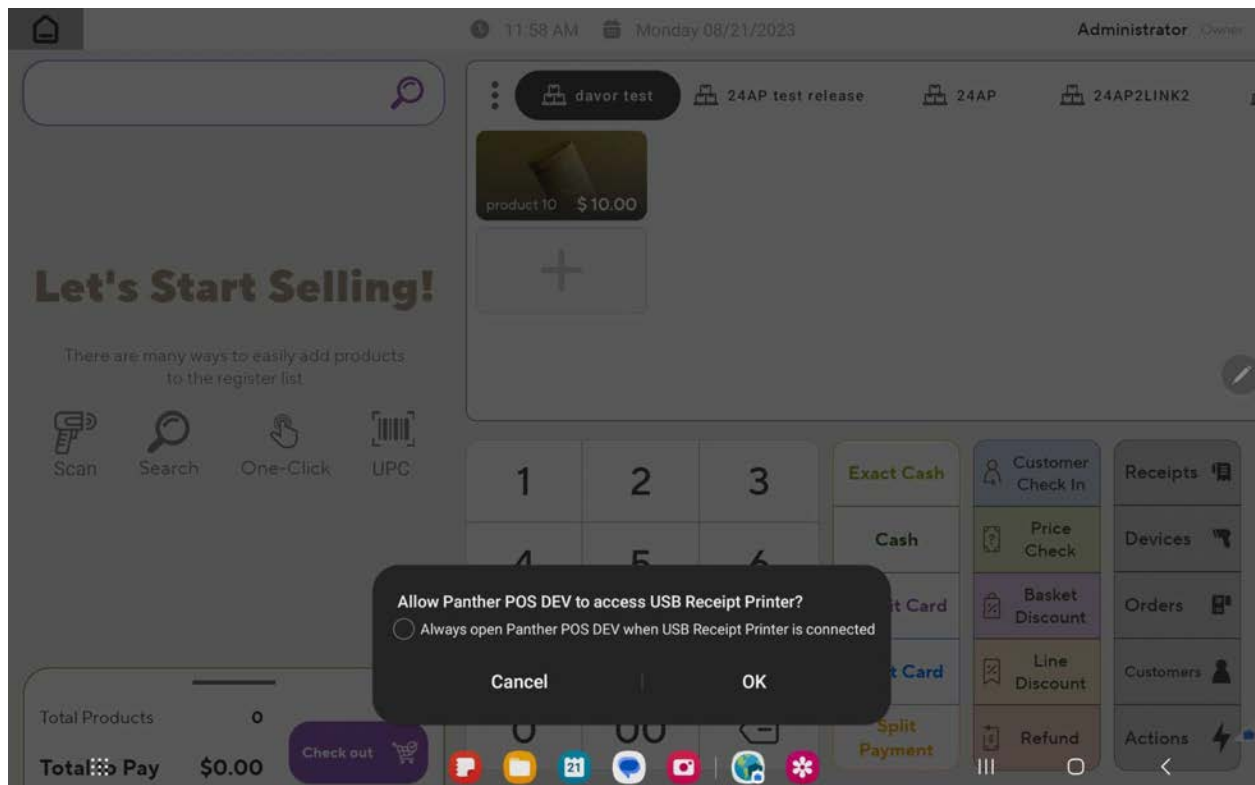
Installing Devices

The **Scanner**, **Printer**, and **Cash Drawer** install via 'plug and play', which means that simply connecting the device to the tablet should install them automatically.

The exception is the PAX payment terminal (**PAX S300** or **PAX A35**) which requires manual installation. Detailed installation instructions for the PAX can be found in [the next slide](#).

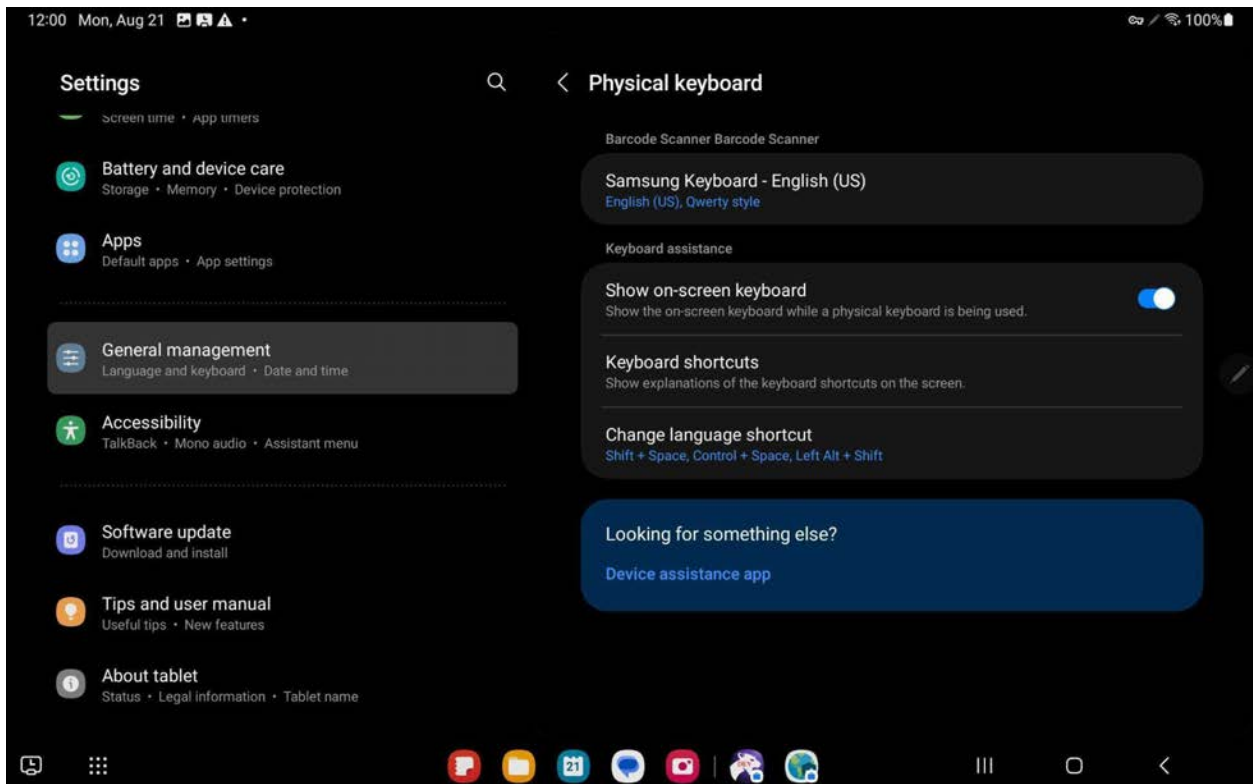
First-Time Printing Permissions

The first time the printer is used, the tablet will prompt for permission to use the printer. This is a standard, one-time process to ensure secure printing.



On-Screen Keyboard Activation

To use the On-Screen Keyboard, you must enable it and allow direct keyboard input in Android settings (**Settings** → **System** → **Languages & Input** → **On-screen keyboard**).



Barcode Scanners

Both the fixed-mount NRS barcode scanner (Zebex Z-8072) and the hand-held NRS barcode scanner (Zebex Z-3272 plus) are supported by Panther POS.

Note: ID Scanning Premium Feature will soon be supported in Panther POS. Current Panther scanner integration functions for barcode entry only.



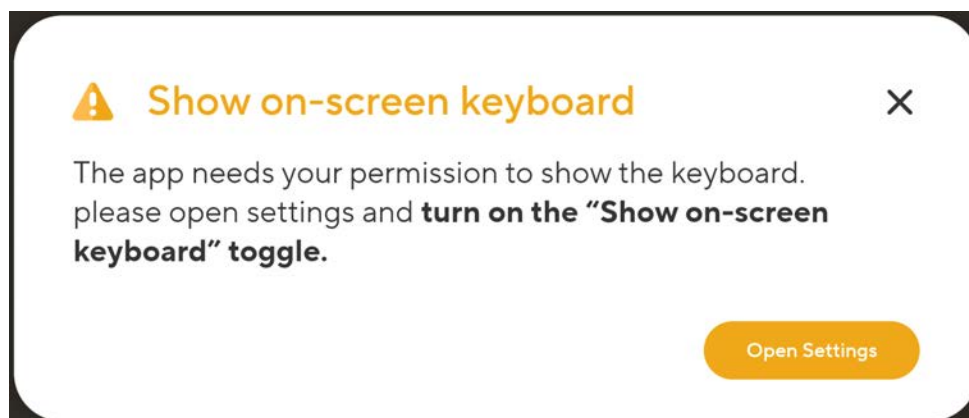
The scanner requires a data connection to the Android tablet via the USB hub, and power.

Installation

Once the scanner is connected to the Android tablet (directly or via a USB hub) it will install automatically via plug-and-play. Panther will automatically recognize the scanner and prompt with an installation complete message, subsequently the scanner is ready for use.

Android Settings

Scanners are recognized as a keyboard by Android, so Panther will prompt you to turn on the **Show On-Screen Keyboard** option in Android settings.



Thermal Receipt Printer

Panther POS supports the standard NRS Thermal Receipt Printer.



The Thermal Receipt Printer requires a data connection to the Android tablet via a USB cable, and power.

Installation

Once the Thermal Receipt Printer is connected to the Android tablet (directly or via a USB hub) it will install automatically via plug-and-play. Panther will automatically recognize the printer and prompt for permission to use this printer, subsequently the printer is ready for use.

Note: A wired USB connection is required for the printer; you can connect this via the USB hub.

Cash Drawer

Panther POS supports the standard NRS Cash Drawer.



Requirements

To use the **NRS Cash Drawer**, you will need the **NRS Thermal Receipt Printer**, since the **NRS Cash Drawer** gets power and a data connection from the **NRS Thermal Receipt Printer** via an RJ11 connection.

Installation

To install the **NRS Cash Drawer**:

- Install the **NRS Thermal Receipt Printer** (see [above](#)).
- Connect the **NRS Cash Drawer** to the printer using the RJ11 cable.
- Panther will silently install the **NRS Cash Drawer**.
 - No support for the cash drawer in the devices card yet.

Once the Thermal Receipt Printer is connected to the Android tablet (directly or via a USB hub) it will install automatically via plug-and-play. Panther will automatically recognize the printer and prompt for permission to use this printer, subsequently the printer is ready for use.

Panther Settings screen

Note that Panther doesn't have full cash drawer support yet, so the Cash Drawer is not displayed in the main **Settings screen** devices status.