nSynC Family
Quick Start Guide

Rev B03

Getting Started

Congratulations on the purchase of an nSynC product! The nSynC product family (formally known as LAVASynC) makes it possible to simultaneously charge select USB-C mobile devices while working with various USB peripherals such as printers, mice, keyboards, and even external hard drives. This mode of operation is called SimulCharge.

The SimulCharge mode of operation charges your mobile device battery to 100% as long as external power is attached. It also supports Docking Detect, which ensures the mobile device enters the correct state during a "hot connect" to the LAVA product.

The nSynC product line provides the following features:

- Access USB peripherals while simultaneously charging a mobile device
- Keep a mobile device connected to power 24/7
- Attach USB peripherals at any time
- Connect and access multiple USB peripherals (product specific)
- Provide a wired Ethernet connection to the mobile device (product specific)
- Power mobile device via PoE (product specific)
- Power via an unregulated DC power supply (product specific)
- Fast charging (product specific)

Your hardware purchase will include:

- nSynC device

Prior to proceeding with the instructions in this document, ensure you have obtained:

- A compatible USB-C mobile device (tablet or smartphone)
- A USB-C to USB-C cable which supports **both data and charging**

Hardware Setup

Requirements:

- nSynC product
- USB-C to USB-C cable that supports both **data and charging**
- Compatible mobile device (such as tablet or smartphone)
- USB Charger & Charging Cable (included with the mobile device)

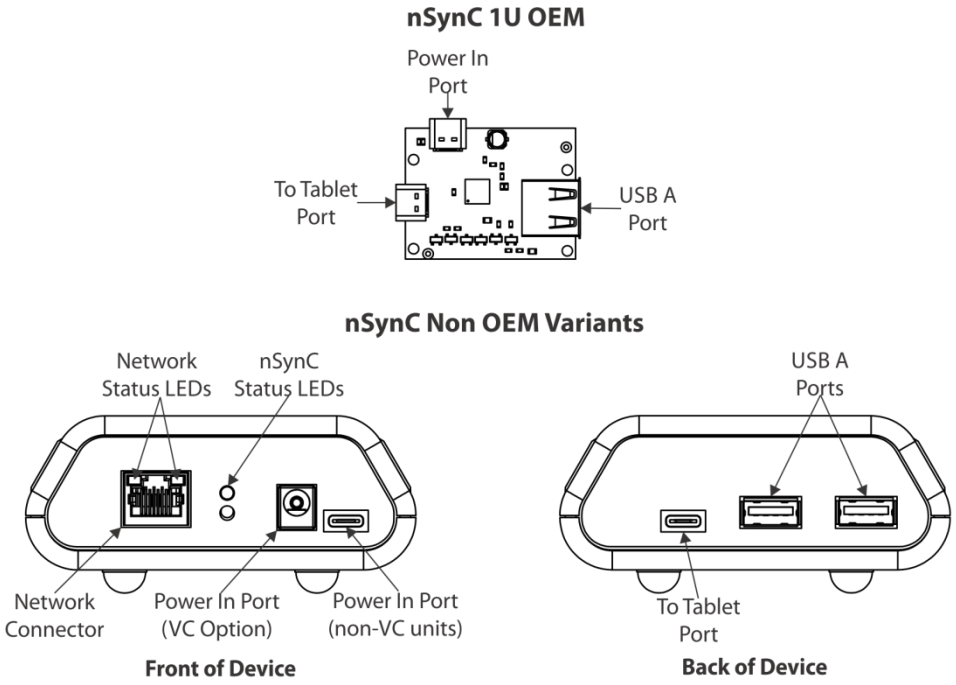

Figure 1: Standard connection of nSynC product to mobile device

Setup Procedure:

1. Plug the USB Charger into an AC power source and connect the USB-C connector into the nSynC port marked "USB-C Power Adapter".
   - **For PoE units:** Select nSynC products can be powered using a PoE Switch or Injector, connected to the Ethernet Port.
   - **For VC units:** Select nSynC products can be powered using a 9-36V (12W or better) power supply with a 2mm center positive barrel jack connector, connected to the port marked "9-36 VDC In". The attached power supply and wiring are responsible for providing short circuit protection.
     (For fast-charging VC units, the DC power supply should be capable of at least 12 volts. The barrel jack port on these adapters is labelled "12-36 VDC In".

Note: *If using either PoE or the VC power input,* ***do not*** *plug a power supply into the port marked "Aux 5V Input".*

Note: *For VC units, when connecting the LAVA product to the supply, ensure the wiring is such that the center pin is positive. If the polarity is reversed, the damage to the LAVA product is* ***immediate.*** *Application of the wrong input voltage violates LAVA's Manufacturer Warranty.*

2. Once the product is powered, the yellow and green status LEDs will blink together, indicating that the unit is receiving power. After a moment, the yellow status LED will pulse to indicate that it is waiting for a mobile device to be connected.

3. Plug one end of the USB-C to USB-C into the mobile device's USB-C port, and the other end into the nSynC port marked "Mobile Device Data & Power Output".

4. Once connected, the green status LED will turn on to indicate that a mobile device has been detected and a connection has been established.

5. Plug your peripherals and/or Ethernet cable into network (if applicable).

Wired Ethernet Configuration (for Ethernet-capable products)

Depending on your mobile device and network configuration, you may need to enable or reconfigure the wired connection settings on your mobile device.

After establishing a connection with the nSynC product, the Ethernet configuration option should be available in the Settings menu of your mobile device (i.e. Settings > Connections > More connection settings > Ethernet).

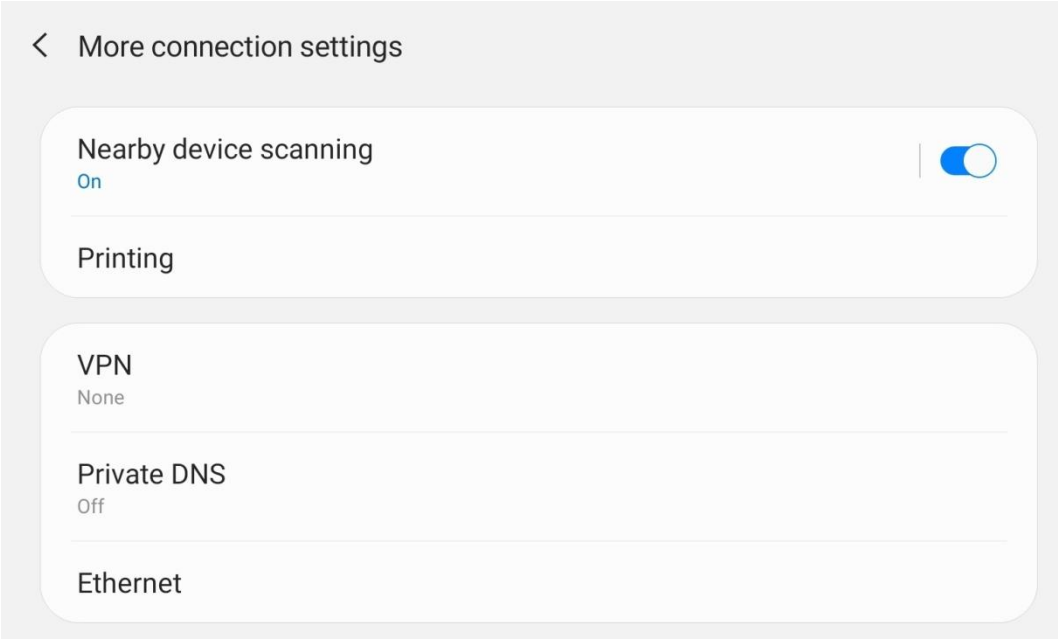

Figure 2: More connection settings on mobile device

If, after establishing a connection with the nSynC adapter, the Ethernet option is greyed out or unavailable, the mobile device likely does not support a wired connection. If this is the case, there is likely nothing that can be done to enable this feature on your mobile device.

Assuming that the Ethernet option is available, it may be necessary to enable or disable the wired connection on your mobile device. This can be done by ensuring the Ethernet option is selected (i.e. enabling the connection) or deselected (i.e. disabling the connection) on the Ethernet page.

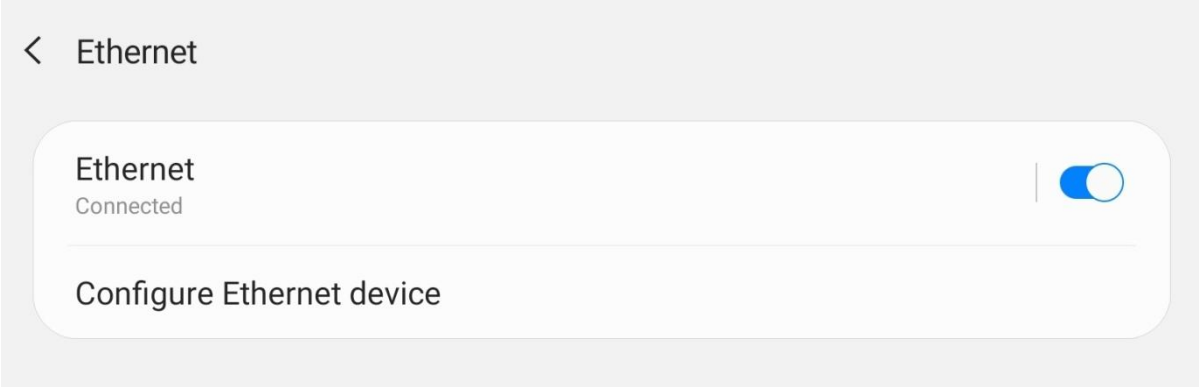

Figure 3: Ethernet enabled on mobile device

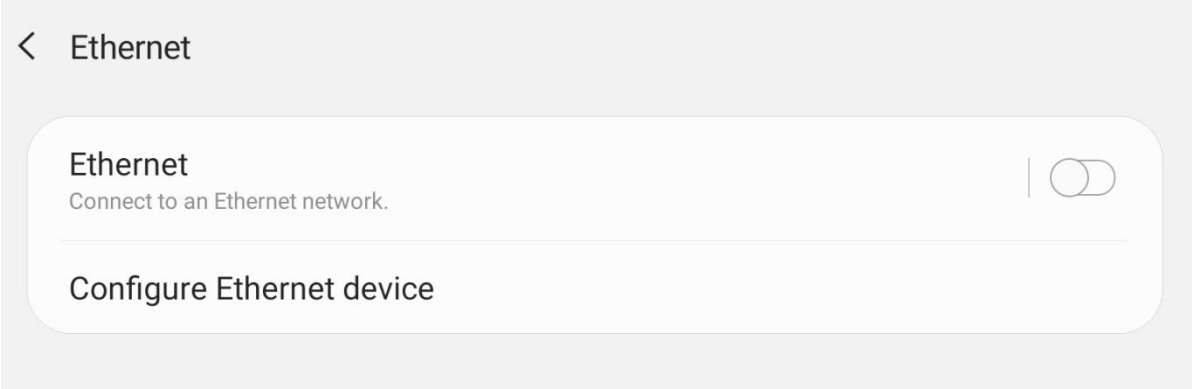

Figure 4: Ethernet disabled on mobile device

Most mobile devices will have DHCP enabled by default. If your network does not have a valid DHCP server, you will need to manually configure an IP Address for the device.

To manually configure an IP Address, you will need to disable the Ethernet connection on the Ethernet page before selecting "Configure Ethernet Device". From here, you can select "Static IP" and specify the IP Address settings to be used by the mobile device.

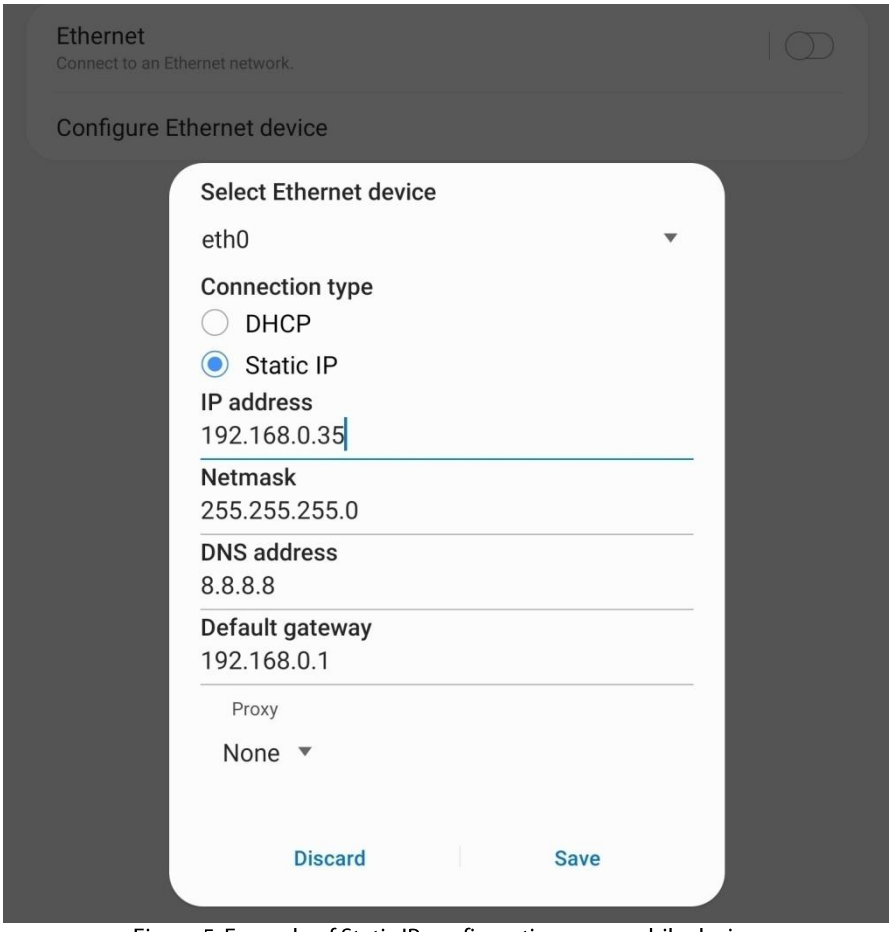

Figure 5: Example of Static IP configuration on a mobile device

Once the IP Address has been configured, you will need to re-enable the connection on the Ethernet page in order to use the wired connection.

LAVA
Technical Support

9:00 am to 5:00 pm Monday to Friday (Eastern Time)

Tel: +416 674-5942
Toll Free (US & Canada): 1-800-241-5282

E-mail: tech@lavalink.com
Web: www.lavalink.com