

TORUN DiGi Gate V2 User Guide

Professional Raspberry Pi Interface for AllStarLink® & SVXLink

Introduction

The TORUN DiGi Gate V2 is a professional Raspberry Pi HAT integrating an Original CM108B USB audio interface, SA818 UHF/VHF radio module, OLED display and RF circuitry for reliable AllStarLink® and SVXLink deployments.

Package Contents

- TORUN DiGi Gate V2
- USB Data Cable (DP/DM)
- Quick Start Guide
- OLED Display (Pre-installed)

Hardware Setup

1. Install Raspberry Pi OS, AllStarLink® or SVXLink on your Raspberry Pi.
2. Identify the supplied cable: Red = DP (USB D+), Black = DM (USB D-).
3. Solder the wires to the correct DP and DM pads for your Raspberry Pi model. Different Pi models use different solder locations.
4. Keep the cable as short as possible and avoid solder bridges or short circuits.
5. Connect the JST connector to the socket on the underside of the DiGi Gate V2.
6. Mount the HAT onto the Raspberry Pi GPIO header and connect the antenna before transmitting.

Install Your Node Software

Complete the installation and configuration of either AllStarLink® or SVXLink before installing the TORUN OLED software.

OLED Software Installation

AllStarLink®

GitHub Repository:

https://github.com/fahadmieaji/digi_gate_oled

```
wget
```

```
https://github.com/fahadmieaji/digi\_gate\_oled/releases/download/2.1.69/digi-gate-v2-2.1.69\_arm64.deb
```

```
sudo apt install ./digi-gate-v2-2.1.69_arm64.deb
```

SVXLink

GitHub Repository:

https://github.com/fahadmieaji/digi_gate_oled_svxlink

wget

https://github.com/fahadmieaji/digi_gate_oled_svxlink/releases/download/v1/svxlink-oled-protected-1.0.22_arm64.deb

sudo dpkg -i svxlink-oled-protected-*.deb

OLED Configuration

sudo digi-gate-menu

- Change Callsign
- Change Node Number
- Rotate Display (180°)
- Save and Apply Settings

Features

- Original CM108B USB Audio Interface
- Integrated SA818 UHF/VHF Module
- Built-in OLED Display
- Low Pass Filter and 50Ω Matching
- Power, COS, ACT and PTT LEDs
- High / Low RF Power Selection
- 24/7 Continuous Operation

Warranty

TORUN DiGi Gate V2 includes a 6-Month Replacement Warranty against manufacturing defects.