Flying Neurons

SuperNeurone

Connection to the TRIG TT21/22/23 transponder

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Amendments

Version	Date	Description
1.0	06/08/2026	First drafted

Contents

This document explains how to connect the SuperNeurone to the TRIG TT21/22/23 transponder to transform it into an ADS-B Out.

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1 Transponder Connection

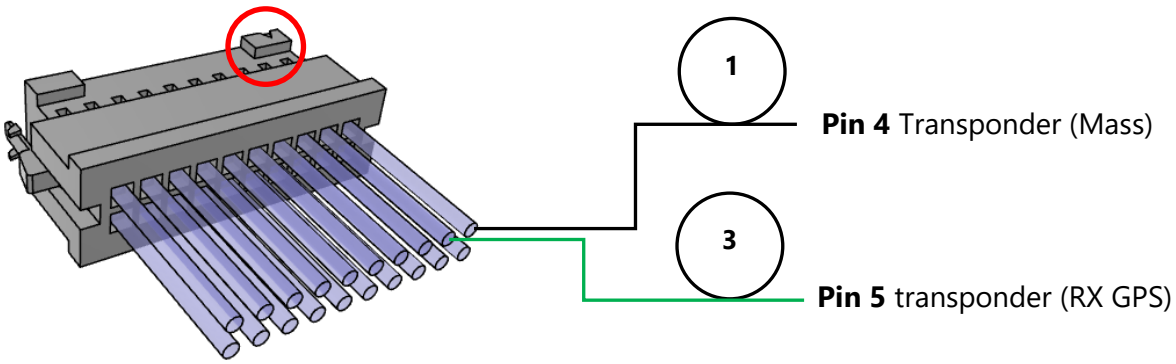
1.1 Use of a "SmartConnector"

- Disconnect the original harness connected to the DB25 connector on the transponder.

- Connect the "**SmartConnector**" instead .
- Reconnect the original transponder harness to the "**SmartConnector**".
- Lock the whole thing.
- Connect the connector marked "**Transponder**" of the SuperNeurone harness to the "**SmartConnector**".

1.2 Using the unequipped harness

If you are using the unequipped SuperNeurone harness, connect it to the transponder in the following pattern:



Pin	Signal	Direction
1	Ground	-
2	TMAP1A	Bidirectional
3	TMAP1B	Bidirectional
4	Ground	-
5	GPS Position In	Input
6	Ground	-
7	TIS Traffic Out	Output
8	TMAP2A	Bidirectional
9	TMAP2B	Bidirectional
10	Ground	-
11	Controller Power	Output
12	Ground	-
13	Power ON	Input
14	Ground	-

2 SuperNeuron Setup

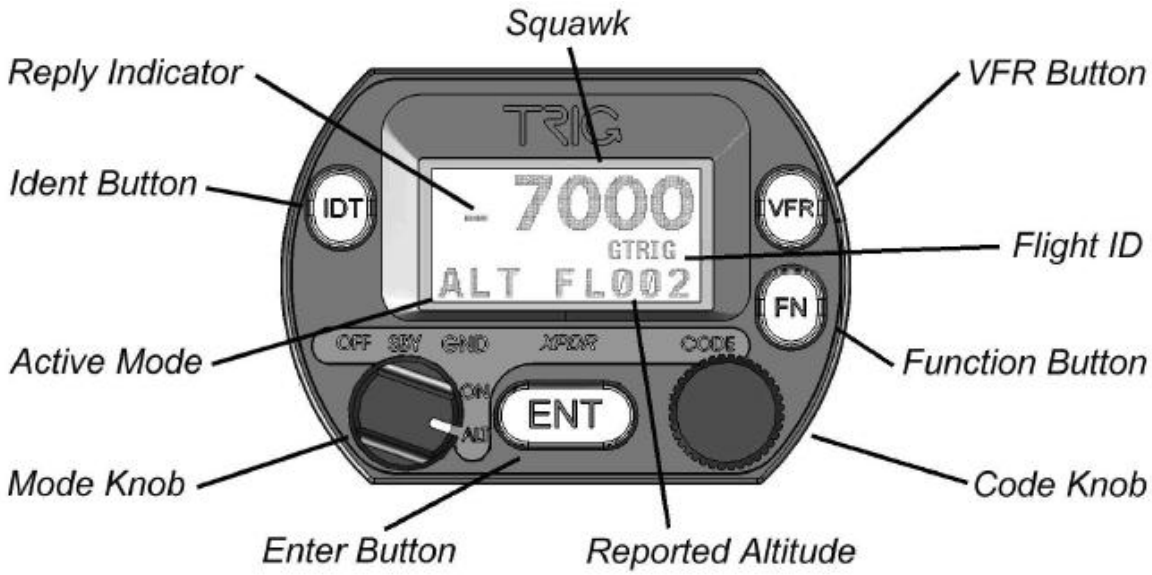
In the "**Transponder**" part of the SuperNeurone configuration:

- Select **TRIG TT21/22/23.**

- For the **Definition of the ICAO address** (transponder hexadecimal address):
  - **Manual** if you know it.
  - **Automatic** to let the SuperNeurone detect it.

- Check the box "**Connected via ADS-B Out**"

3 Transponder Configuration



- To enter Setup mode :
  - Turn off the transponder.
  - Press the **FN button** and **keep releasing the** transponder.

- You are now in **Setup mode**.
  - Switch menus by pressing **the FN button**.
  - Press the **ENT button** to confirm a choice.
  - Use the **right wheel** to scroll through the choices.

- Change the following 2 settings:
  - GPS input : **NMEA 0183**
  - Interface speed: **38400 bps**