

8.3 | Trimble FMX/GFX/TMX with Ag25

Applicable to:

Trimble FMX, GFX, and TMX displays using NMEA 0183 RS232 output via 12-way DTM port.

Harnessing Layout Overview

Usage of the FMX/TMX NMEA 0183 output only requires the addition of a **T3H-G004** adapter to the **T3H-C002** ECU breakout harness.



Parts Required

- **T3H-G004** - COMMAND Trimble NMEA Output Adapter

Connection Process

NOTE: The **T3H-G004** adapter routes the RS232 Tx and Rx connection to the **COMMAND** ECU and they are NOT replicated on the port replicator connector. All other pins are replicated for connection of other devices.

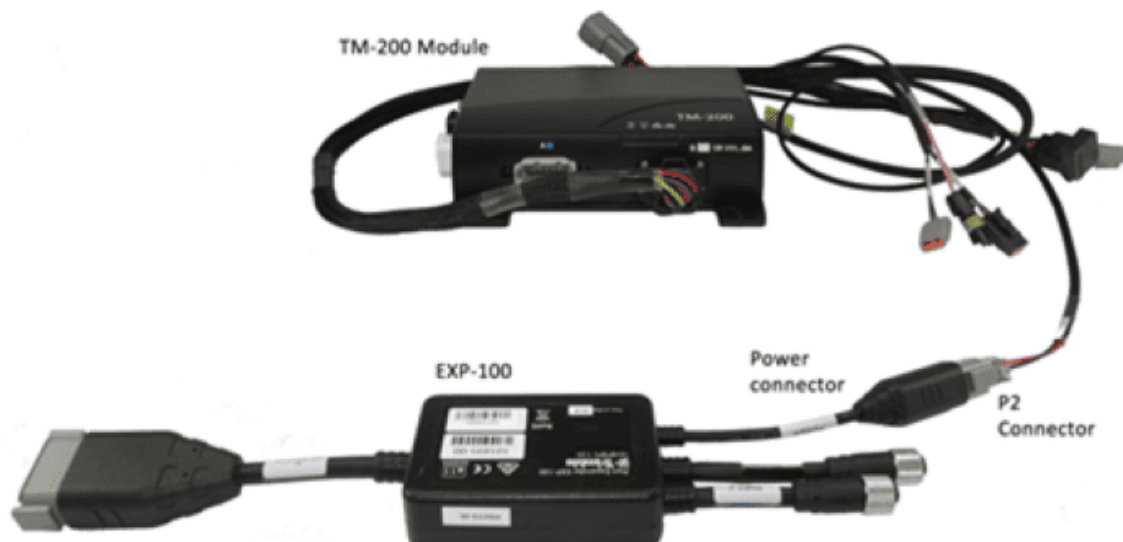
For FMX/FM1000

Connect the **T3H-G004** adapter to Port C or Port D on the FMX display depending on whether antenna port 1 or 2 is to be used. Port C will provide the NMEA output for antenna port 1 while Port D will provide NMEA output for antenna port 2.



For GFX/TMX with TM-200 and EXP-100

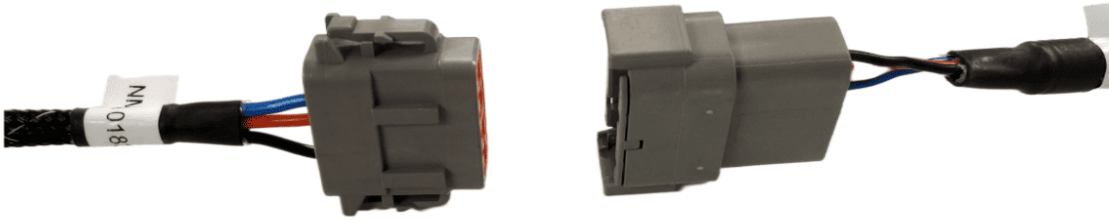
Connect the T3H-G004 adapter to the EXP-100 port expander module.



A port replicator is supplied in case the port was already in use for something else, if so disconnect the device, connect **T3H-G004** and then reconnect the device using the port replicator on **T3H-G004**.



Connect the other end of **T3H-G004** to the **T3H-C002** ECU breakout harness.



Next, follow the setup process below for activating the NMEA output port on the FMX/TMX system.

Activating the NMEA Output - FMX/FM1000

Make sure that if present, Autopilot is configured for use on Port A - this leaves Port C and Port D free for NMEA output of either implement receiver.

1. Select the GPS Receiver listed below Autopilot [Vehicle] and press "Setup".

2. Press the "GPS Output" button.

3. Configure the NMEA GPS Output port as below:

- Select Output Port A (ext. GPS)
- Select a message rate of 5 Hz
- Select a Baud Rate of 38400
- Set Maximum GGA Quality to 0
- Set Lat/Lon Precision to 8
- Press the "NMEA Messages" Tab.

4. Configure the NMEA Messages as below:

- Set GGA, to "On".
- Set GSA, to "On".
- Set VTG, to "On".
- Leave all other messages set to "Off".

