

1. General

1.1. Support

If you got any question left after reading this manual, have a look at the [TBS FAQ](#).

For personal help [open a ticket](#) or [check the status of your ticket](#).

1.2. Updating and Setup - DroneCAN GUI Tool

Updating the sensors can be done by the [DroneCAN GUI Tool](#).

The sensor connection can be established via an FC⁽¹⁾ and its USB-port.

1.3. External Firmwares

1.3.1. ArduPilot

- [Website](#)
- [Github project page](#)
- [Configurator overview](#)

1.3.2. INAV

- [Github project page](#)
- [Configurator download](#)

(1) with Ardupilot firmware and a CAN-port



7. DroneCAN GPS Module

7.1. About

The TBS LUCID DroneCAN compatible GPS module, plug and play with any DroneCAN compatible flight controller.

7.2. Specification

Connections:	CAN 2x Serial 1x SWD 1x I2C 1x
Connector Type:	JST-GH 6-pin, 1.25 mm Solder-Pads
Size:	
Operation Temperature:	-20 - 80 °C
Weight:	
Input Voltage:	4.5 - 5.5 V
Receiver:	UBX-M9140
Receiver Type:	GPS GLONASS BDS GALILEO
Compass:	QMC5883
Frequency:	1561 - 1602 MHz
Sensitivity:	Track: -167 dBm Recapture: -160 dBm Cold start: -148 dBm Hot start: -159 dBm
1PPS time:	RMS: 30 ns



	99 %: 60 ns
Accuracy:	Horizontal: 1.5m CEP Speed: 0.05m/s
Output protocol:	NMEA UBLOX
Update frequency:	0.25 - 25 Hz Default 1Hz
Auxiliary system:	SBAS QZSS
Channels:	92
Baud rate (bps):	4800 - 921600 bps Default 9600 bps

Changelog

Revision	Date	Changes
1.00	2025-11-12	Initial release