

Butterfly Connect Stick

Manual

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Notes

General Information

IMPORTANT!

|| *Please read this manual carefully!*

|| *Please pay attention to the restrictions on use!*

Document identification / revision status

This manual supports the following product types:

- P/N B104-001 "Butterfly Connect"

Actual version: **Connect Stick Manual • 18.B106.001-1.0-EN, Version 1.0**

Version history

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1.0	2013/05/21	Release	M. Foerderer	Translation from german version	-

Referenced documents

Reference	Title	Version	Date	Author
18.T275T276.001-EN	Vario Installation Manual	1.0	2013	Butterfly

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1 General

Butterfly Connect Stick is a very compact, lightweight USB-device wirelessly connecting Smartphones such as Apple® iOS®-devices to aircraft systems.

Butterfly Connect Stick creates an IEEE 802.11 b/g wireless AD-HOC network (WiFi®) and transmits data from host devices like e.g. the Butterfly Vario via the TCP/IP protocol. Many Smartphone-Apps are capable of displaying and using such data. Examples for data are current GPS-position, pressure altitude, traffic or engine data.

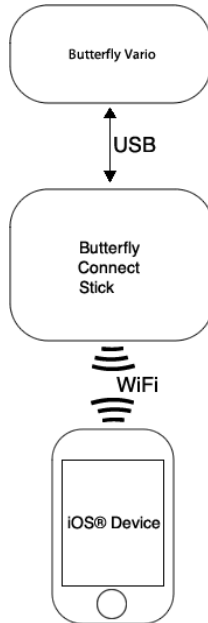


Figure 1: System Diagram

1.1 Safety instructions and restrictions on use

Installation and operation must be on the basis of non-interference with and no hazard to the existing suite of other equipment necessary for safe flying operation, or installed to comply with official requirements. Installation and operation must comply with official regulations and requirements.

|| ***Never make safety critical decisions based on transferred information. Make sure to the end users of your App that displayed data are for situational awareness only.***

|| ***Butterfly Connect does not have a JTSO or FAA-TSO airworthiness certification.***

1.2 Intellectual Property and Liability

Butterfly Avionics GmbH will not be liable for errors/changes/omissions in this document - specifications are subject to change without notice. Butterfly Avionics its associates, development team, suppliers, manufacturers and data suppliers accept no responsibility for any damage or claims that may arise from use of Butterfly Connect.

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2 Installation

2.1 Connector

Butterfly Connect Stick features one central USB connector for power and data.

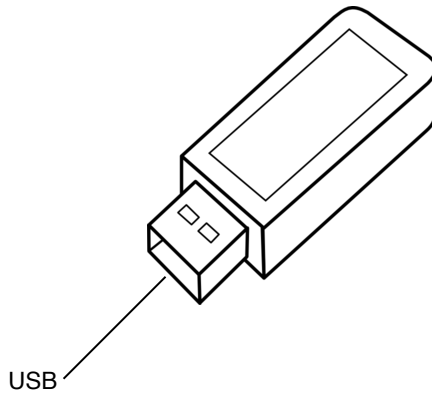


Figure 2: USB Connector

2.2 Mechanical Installation

Carefully insert the stick into one of the Butterfly Vario USB ports and take care to insert it in the correct direction.

|| The stick may be destroyed if trying to insert it in the wrong direction

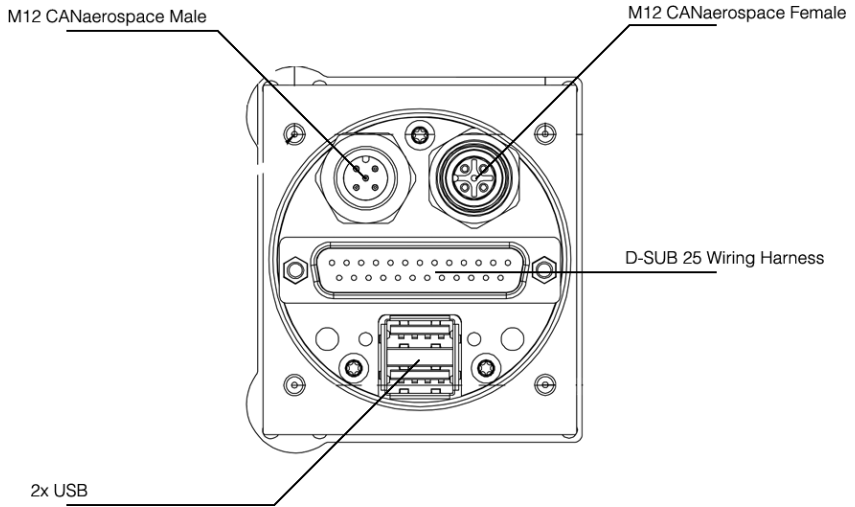


Figure 3: USB connectors on the back of a Butterfly Vario Display unit

In two seater installations, two connect sticks have to be installed, one on each display unit.

3 Initial Configuration

Butterfly Vario devices are compatible with vario-software version 1.06 or higher

3.1 Butterfly Vario Configuration

- Butterfly Vario Configuration
 - Power on Butterfly Vario
 - Go to *Menu* then *Setup* then *Device, Peripherals*, and set *WiFi* to *Yes*
 - Go to *Menu* then *Setup, Device* and set your data output as desired

When using iGlide, set LXWP as the main Vario dataset.

|| Changes only take effect after re-booting Butterfly Vario

3.2 Connecting your iOS®-Device

To create a connection to iOS®-devices, please follow the steps underneath:

These settings only have to be entered once at initial configuration

- Connect iOS®-Devices
 - Power on Butterfly Vario
 - Open the iOS®-Settings App on your iOS®-Device.
 - Go to *Wi-Fi* and make sure WiFi is active.
 - In the *Choose a Network...*-field the Network of your Butterfly Vario appears. It is always named *Butterfly Vario* followed by a multi-digit number code.
 - Tap on the *Butterfly Vario*-Network to establish a connection
 - Tap on the little blue arrow next to the *Butterfly Vario*-Network
 - In the field *IP-Address* choose *Static*
 - Enter the following IP-Address in the field *IP-Address: 192.168.1.2*
 - Enter the following Subnet-Mask in the field *Subnet-Mask: 255.255.255.0*

Make sure that your iOS®-Device remains connected with the network. To prevent automatic network switching activate Ask to Join Networks in the Wi-Fi menu.

4 Using Data in Apps

4.0.1 Using Data in iGlide

- iGlide
 - Go to *Menu > Settings > Interfaces and Sensors*
 - Activate *Butterfly Vario*

Notes