FlySync Pro USB Dongle User Manual

1. Overview

Collins Aerospace's FlySync Pro USB Dongle is an upgraded version of the FlySync Lite USB Dongle. While retaining the USB flash drive storage and wireless data transfer functions, it adds a built-in operating system that can run various software designed by Collins Aerospace, thus perfectly adapting to various apps such as ForeFlight® on the Electronic Flight Bag (EFB).



2. Features

- Multifunctional design: Supports USB Flash storage, Wi-Fi hotspot functionality, and compatibility with various apps.
- Built-in operating system: Allows online upgrades and loading of customized software, compatible with various apps such as ForeFlight®.
- USB 2.0 interface, plug and play.
- 802.11b/g/n wireless standard, stable transmission on the 2.4GHz band.
- 16GB built-in USB Flash Drive, meeting basic data storage and transmission needs.
- 32GB built-in eMMC storage, capable of storing and loading a massive amount of software.
- USB powered, no external power supply required.
- Low power consumption design, rated power consumption of only 1.5W.
- WPA2 encryption, ensuring data transmission security.
- IP54 protection rating, adaptable to various working environments.

- FCC certified, compliant with international standards.

3. Hardware Specifications

Item	Parameter
Product Name	USB Dongle
Product Model	FlySync Pro
Color	Black
Shell material	ABS plastic
USB Flash Drive capacity	16GB
eMMC storage capacity	32GB
Wireless standards	802.11b/g/n（2.4GHz）
Wireless transmission rate	802.11n up to 150 Mbps
USB interface	USB 2.0
Power supply	USB powered
Rated power consumption	1.5W
Dimension	45 × 79 × 21 mm
Weight	50g

4. Functions and performance

Functional Classification	Item	Directions
Storage function	USB flash drive mode	Simply plug it into your computer via the adapter cable, and it will work like a standard USB flash drive, supporting file read and write operations.
	File system	Supports FAT32 format
	Hot-swap	Support
Wi-Fi hotspot function	Wi-Fi hotspot mode	After the device is powered on, it will automatically generate a Wi-Fi hotspot.
	Connection method	Other devices can connect to the hotspot network by entering the correct password.
	Data security	Supports WPA2 encryption
	Compatible systems	PC, MAC, iOS
	Transmission distance	In open environments, it can reach 30 meters.
	Supported devices	DBU-5000,EFB etc.
Apps adaptation function	ForeFlight® compatibility	This will enable data interaction between ForeFlight® and the onboard equipment, allowing real-time display of aircraft parameter information in ForeFlight®.
	Connection method	After installing the specified software via online upgrade with FlySync Pro, connect FlySync Pro to the onboard BDU-5000, and then connect the ForeFlight®-equipped EFB to the FlySync Pro's Wi-Fi network.

5. Usage Environment

Item	Parameter
Operating temperature	-10°C to 55°C
Storage temperature	-20°C to 70°C (recommended)
Protection level	IP54 (dustproof, splashproof)

6. Packaging and Accessories

Item	content
Packaging contents	FlySync Pro × 1
	User Manual × 1
	USB-A to Type-C adapter cable × 1
Authentication information	FCC

7. Application scenarios

Flight data synchronization to the electronic flight bag (EFB): Rapidly distribute flight data to the flight deck from an electronic flight bag (EFB).



Standard USB flash drive for everyday storage



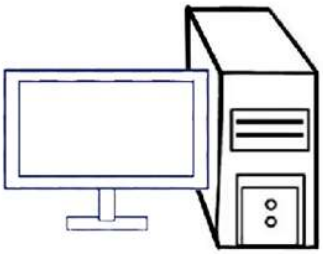
Laptop computers

USB adapter cable





FlySync Pro
USB Dongle



Landline computers

8. Operating Instructions

8.1 USB flash drive mode

a) Plug the FlySync Pro into the computer's USB interface via the adapter cable.
b) The system automatically recognizes it as a removable disk.
c) Files can be copied, pasted, and deleted directly.

8.2 Wireless hotspot mode

8.2.1 Sending end operations

a) Insert FlySync Pro into the USB interface of the Data Base Unit via the adapter cable.
b) FlySync Pro will automatically create an encrypted Wi-Fi hotspot.

8.2.2 Receiver operation:

a) Search for Wi-Fi networks on EFB
b) Connect to the Wi-Fi hotspot created by FlySync Pro (name and password can be found on the product label).
c) Once the connection is successful, EFB will display "Connected".

8.3 ForeFlight® compatibility

a) Connect the ForeFlight® EFB to the wireless network created by FlySync Pro.
b) Open a browser on the EFB and enter http://192.168.3.1:5000 to log in to the FlySync Pro IP configuration interface.
c) Enter the EFB's IP address into the IP address field of the EFB Configuration. Click the “OK” button and wait approximately 30 seconds for FlySync Pro to restart.
d) After FlySync Pro restarts, open the ForeFlight® App on the EFB to view real-time aircraft parameter information.

9. Precautions

a) Do not use in environments with high temperature, high humidity, or strong electromagnetic interference for extended periods.
b) Ensure good contact of the USB interface during use and avoid frequent plugging and unplugging.
c) Wireless transmission distance is affected by the environment. It is recommended to keep EFB as close as possible to FlySync Pro and avoid obstruction when using it.
d) This product does not support 5GHz band wireless networks.
e) In transmission mode, please ensure that the device has sufficient power to avoid transmission interruption.
f) For first-time users, it is recommended to install the accompanying software for full functionality support.

10. FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the

user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

This device has been tested and meets the FCC SAR limit, However, when in use, the device must be placed 5mm away from the human body.

11. Contact information

For technical support or after-sales service, please contact:

Official Website：www.flysync.com

Customer service email：support@alrac-aero.com

Service Hotline：400-xxx-xxxx

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