

# ***Finch Jeti***

Converting JetiEX protocol to Albatross protocol



Manual version: 1.0

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## Introduction

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The Finch Jeti unit is designed as bridge to convert Jeti EX to Albatross App protocol. It is converting Jeti data from Sparrow / Raven onboard units.

### *Key features*

- External SD for updates
- Plug & play

### *Specifications*

|                                |                       |
|--------------------------------|-----------------------|
| Unit Dimensions                | 42 mm x 22 mm x 11 mm |
| Weight                         | 11 grams              |
| Temperature Range <sup>1</sup> | -10°C ~ +60°C         |
| Input Voltage Range            | 5.0 volts DC USB      |
| Input Current                  | 84 milliamps          |

<sup>1</sup> Specifications are taken from component ratings and system limits and may not have been tested to the full extent of the specified ranges.

## Physical overview

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Figure 1 shows the Finch Jeti module.

Main connectors are:

- 3- pin JR input for connecting Jeti Cable

- Onboard multi-color LED shows different status of operation:

At power on all LEDs are toggled (red, green, blue and white) to confirm its operation, during operation LED status are:

red – module is waiting for Jeti EX signal

green – module got all needed data and forwards it to Albatross

blue – not yet implemented.

white – not yet implemented.

- External SD card connector is used for firmware updates or to set Finch to listen mode via Settings.ini file. **SD card is not included in the package!**

- Micro USB is used to connect the Finch to an Android tablet or phone to display the flight data thru Albatross app. Finch will get power from Android device via USB connection so Android device must support OTG mode to supply power to the unit.

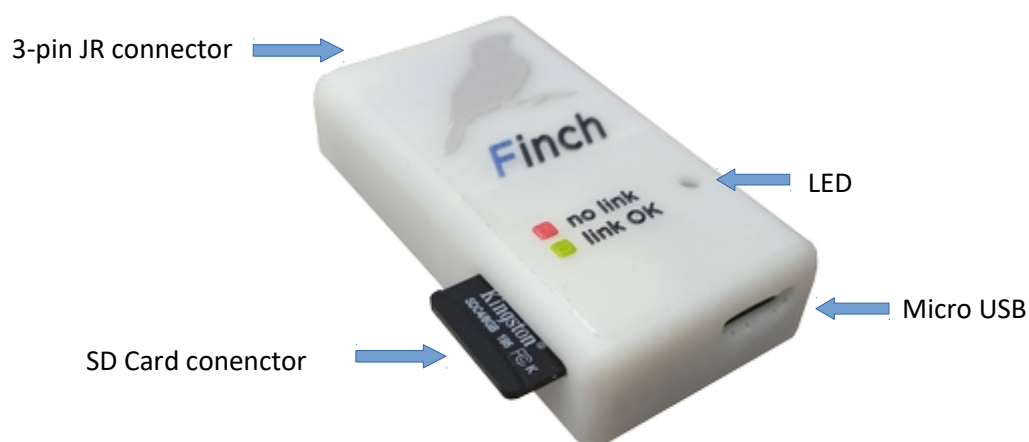


Figure 1: The Finch Jeti module.

## Using the Finch Jeti module

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### *Powering the module*

To power the Finch Jeti module connect it to a tablet or phone via Finch USB cable. Connect Jeti Cable to Finch 3-pin JR connector. Connect onboard unit and green LED must turn on. Run the Albatross application and you are ready to use it.

## Update via SD card

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To make an update make following:

1. Download latest firmware for Finch from our web site. Firmware should have name Finch.rcu
2. Copy Finch.rcu to root of SD card
3. Insert SD card to Finch module and power it up.
4. Wait for 5-8s until all LED lights will toggle shown
5. Remove SD card and check "Finch info.txt" file that new version is installed.

### **Finch info.txt example:**

|                      |                        |
|----------------------|------------------------|
| Device: Finch        | - device name          |
| Serial No: 190001    | - device serial no.    |
| HW: 1.1              | - HW version of device |
| Produced: 20.12.2019 | - date of production   |
| FW v: r.0.9.B110     | - FW version installed |

## Revision history

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|            |      |                   |
|------------|------|-------------------|
| 20.12.2019 | v1.0 | - initial release |
|------------|------|-------------------|