



FLIGHT GUIDE
FLY-Wi GPS®

Getting Started With Your Flight Guide FLY-Wi GPS

Congratulations on purchasing your **Flight Guide FLY-Wi GPS**. Use this booklet to quickly learn how to operate your device.

Compatibility

The **FLY-Wi GPS** is compatible with the **version 2.3** or above of the **Flight Guide iEFB** Application for the Apple iPad. The **FLY-Wi GPS** uses WiFi to wirelessly communicate with your iPad. All Apple iPad models are compatible with the **FLY-Wi GPS**.

Charging Your FLY-Wi Transmitter

Before use, your **FLY-Wi Transmitter** needs to be fully charged.

** Units come partially charged from the factory.*

Step 1: Using the supplied 110 Volt AC Power Adapter, plug the small end connector of the adapter into the “**PWR**” port of the **FLY-Wi Transmitter** and the other into a 110 AC wall receptacle.

Step 2: **In order to charge, the device must be turned on.** Simply press the (↻) **On/Off** button to power on the unit. When charging, the “**PWR**” and “**CON**” LED lights will alternate red and green. When fully charged, the LED lights will stop flashing and the “**PWR**” and “**CON**” LED lights will shine solid. Please allow 5-6 hours to fully charge the **FLY-Wi Transmitter**. With normal use, your **FLY-Wi Transmitter** can last up 8 hours before recharging it's batteries. When connected to your **FLY-Wi GPS** network, your **Flight Guide iEFB** Application will display a battery indicator in the **GPS status window** located along the bottom of the “Charts” and “Airports” pages. To ensure that you will not run out of battery during a flight, always recharge the battery if the indicator displays 25% or less. If the device is going to be stored for a longer period of time, it should be stored with the battery fully charged. Battery life will be extended if it is not left on the charger once fully charged.

** The FLY-Wi Transmitter can also be charged in the same manner using the optional FWDC-100 12/28 Volt Lighter Adapter.*

Using Your Flight Guide FLY-Wi GPS

Setting Up Your FLY-Wi GPS

Step 1: Plug in the **BR-355 GPS Receiver** into “**Port 1**” of your **FLY-Wi Transmitter**. Before you turn on the unit, be sure that the GPS has a clear and unobstructed view of the sky to receive satellite signals. Press the (⏻) **On/Off** button to power up the unit.

** The BR-355 GPS Receiver gets its power source when connected to the FLY-Wi Transmitter.*

Step 2: Launch the “**Settings**” Application on your iPad and choose “**Wi-Fi**”.

Step 3: Select the Network named **FLY-Wi**, for example, “**FLY-WI-99**”.

Step 4: Launch the **Flight Guide iEFB** Application.

Step 5: Select the “**My Account**” menu Icon located in the Main Menu Bar on the bottom of the iEFB App.

Step 6: Select “**Edit Settings**” located on the bottom half of the “**My Account**” menu.

Step 7: Slide the “**Enable Fly-Wi**” setting to the **On** position. Select “**Charts**” and choose a seamless chart.

After a few seconds your position will be displayed on the chart and “**Fly-Wi Connected**” will be displayed in the **GPS Status window** located along the bottom of the “**Charts**” and “**Airports**” pages.

** GPS location is only displayed on seamless charts.*

When **FLY-Wi** is not available, the iPad’s built-in GPS (if available) will display your location and “**Fly-Wi Not Connected**” will be displayed in the **GPS Status window**.

GPS Heads Up Display

When viewing a seamless chart in the **Flight Guide iEFB** Application the “**Heads Up Display**” or **HUD** located along the bottom of the “**Charts**” and “**Airports**” pages, will display GPS data including speed, track and altitude (in knots, degrees and feet respectively), climb/descent rate, glide slope and **FLY-Wi GPS** status when connected.

If WAAS is available, the HUD in **Flight Guide iEFB** will display its status in green. In order to get WAAS you need to have a good view of the sky. Just placing the **BR-355 GPS Receiver** it in the back, near a window, may not be adequate. This is why certified WAAS installations have very specific requirements on antenna placement.

** The provided suction cup can be used to secure the BR-355 GPS Receiver to a glass surface.*

Connecting the ZAON PCAS XRX to your FLY-Wi GPS

Step 1: Connect DB9 end of **FLY-Wi GPS ZAON Cable** to Zaon XRX RS-232 port.

Step 2: Connect PS2 end of **FLY-Wi GPS ZAON Cable** to “Port 1” of **FLY-Wi GPS**.

Step 3: Connect **BR-355 GPS Receiver** to “Port 2” of **FLY-Wi GPS**.

Step 4: Set the communications mode on the **ZAON XRX** to “**Profile 2**”.

Step 5: Establish Network Connection from the **FLY-Wi GPS** to your iPad.

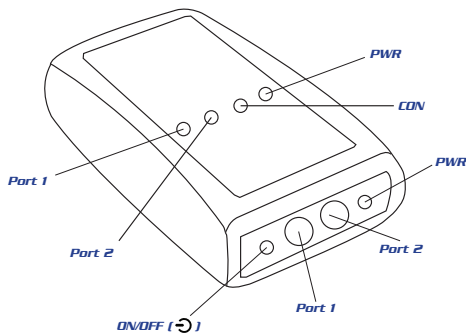
LED Indicator Lights

PWR: Blinks red when there is no network connection, solid red when a connection is established.

CON: Solid green when a network connection is established and **Flight Guide iEFB** is active on your iPad.

PORT 1: Blinks amber when GPS is connected and data is being sent to **Flight Guide iEFB**.

PORT 2: Blinks amber when an external source is connected and data is being sent to **Flight Guide iEFB**.



Powering down the FLY-Wi Transmitter

To power down your **FLY-Wi Transmitter**, simply press and hold the (⏻) **On/Off** button until all LED lights begin to flash. As soon as all LED lights begin to flash, release the **On/Off** button. If powered down correctly, all LED lights will be off. The **BR-355 GPS Receiver** will automatically power off when not attached to **FLY-Wi Transmitter**.

* Your **FLY-Wi Transmitter** will automatically go into a "Sleep" mode if a GPS signal or network connection is lost. Simply power the unit back on to resume use.

BR-355 GPS Receiver

The **BR-355 GPS Receiver** has a special compact design with a non-slip bottom, is completely self-contained and waterproof. It incorporates the latest SiRF Star III GPS chipset and an active patch antenna so you receive a high degree of GPS accuracy. The extended 5 feet long cable allows for easy routing to your **FLY-Wi Transmitter** behind headliners and side panels and terminates to a custom PS/2 connector.

Features:

1. SiRF Star III High Performance GPS chipset.
2. High sensitivity (Tracking Sensitivity: -159 dBm).
3. Extremely fast TTFF (Time To First Fix) at low signal level.
4. Support NMEA 0183 data protocol.
5. Built-in SuperCap to reserve system data for rapid satellite acquisition.
6. Built-in patch antenna.
7. RS232 interface connection port.
8. Waterproof and non-slip on the bottom.
9. LED indicator for GPS fix or not fix.
 - LED OFF: Receiver switch off
 - LED ON: No fix, signal searching
 - LED Flashing: Position fixed
10. WAAS ENGOS is supported.

What is WAAS?

The Wide Area Augmentation System (WAAS) is an F.A.A. funded project to improve the overall integrity of the GPS signal. It is a space-based system that broadcasts integrity information and correction data as determined by ground reference stations. At this time the system is still in the developmental stage with a goal of providing reliable signals with an accuracy of 7 meters (21-22 ft.) both horizontally and vertically 95% of the time. Current tests have shown the actual accuracy to be on the order of 2-3 meters. For more information, go to: www.faa.gov

BR-355 GPS Receiver

Specifications

Chipset: SiRF Star III

Frequency: L1, 1575.42 MHz

C/A code: 1.023 MHz chip rate

Channels: 20 channel all-in-view tracking

Sensitivity: -159 dBm

Accuracy Position: 10 meters, 2D RMS

5 meters, 2D RMS, WAAS enabled

Velocity: 0.1 m/s

Time: 1us synchronized to GPS time

Datum

Default: WGS-84

Acquisition Time

Reacquisition: 0.1 sec., average

Hot start: 1 sec., average

Warm start: 38 sec., average

Cold start: 42 sec., average

Dynamic Conditions

Altitude: 18,000 meters (60,000 feet) max

Velocity: 515 meters/second (1000 knots) max

Acceleration: Less than 4g

Jerk: 20m/sec \times 3

Power

Main power input: 4.5V ~ 6.5V DC input

Power consumption: 80mA

Output voltage level: 5V

Baud rate: 4,800 bps

Output message: NMEA 0183 GGA, GSA, GSV,
RMC, VTG, GLL

Physical Characteristics

Dimension: 53mm diameter, 19.2mm height

Cable length: 1.5 meters

Operating temperature: -40°C to +85°C

9.6 Watt AC/DC Unregulated Linear Wall Adapter

Specification

12 Volts at .8 Amps

Input Frequency: 60Hz

Minimum Operating Temperature: 0°C

Maximum Operating Temperature: 40°C

Connector Type: Male

Connector Size: 3.5mm

Polarity: Center Positive

Dimensions: 2.6" x 2.4" x 2"

Cord length: 6'

Weight: .9 lbs

Certifications: UL/CSA

Battery Warnings

If these guidelines are not followed, the nickel-metal hydride cell (NiMH) battery may experience a shortened life span or may present a risk of damage to the **FLY-Wi Transmitter**, fire, chemical burn, electrolyte leak, and/or injury.

- Do not leave the unit exposed to a heat source or in a high temperature location, such as in the sun in an unattended airplane on a hot day. To prevent damage, remove the unit from the plane or store it out of direct sunlight.
- Do not puncture or incinerate.
- When storing the unit for a limited length of time, store within the following temperature range: -4° to 140°F (-20° to 60°C). When storing the unit for an extended time, store within the following temperature range: 32° to 77°F (0° to 25°C).
- Do not operate the unit outside of the following temperature range: -4° to 131°F (-20° to 55°C).
- Do not recharge the battery out of the unit or disassemble the battery.
- Keep the used battery away from children.
- Do not disassemble or damage the battery.
- Do not remove or attempt to remove the non-user replaceable battery.
- Batteries can only be replaced by **Airguide Publications, Inc.** authorized personal.
- Using another battery presents a risk of fire or explosion. To purchase a replacement battery, contact us at (800) 359-3591.
- Contact your local waste disposal department to properly dispose of the unit/ battery.

Warning: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This notice is provided in accordance with California's Proposition 65.

FCC Compliance

The **FLY-Wi GPS** complies with Part 15 of the FCC interference limits for Class B digital devices FOR HOME OR OFFICE USE. These limits are designed to provide more reasonable protection against harmful interference in a residential installation, and are more stringent than “outdoor” requirements. Operation of this device is subject to the following 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. Complies with Canadian ICES-003 Class B specification. Contains FCC ID U30-G2M5477 and IC 8169A-G2M5477.

This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instructions. 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.

The **FLY-Wi GPS** does not contain any user-serviceable parts. Repairs should only be made by Airguide Publications, Inc. personnel. Unauthorized repairs or modifications could result in permanent damage to the equipment, void your warranty and your authority to operate this device under Part 15 regulations.

Limited Warranty

This Airguide Publications, Inc. product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Airguide Publications, Inc. will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alteration or repairs. This product is intended to be used only as a travel aid and must not be used for any purpose requiring precise measurement of direction, distance, location, or topography.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE. IN NO EVENT SHALL AIRGUIDE PUBLICATIONS, INC. BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you.

Airguide Publications, Inc. retains the exclusive right to repair or replace the unit or offer a full refund of the purchase price at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY. To obtain warranty service, contact Airguide Publications, Inc. at (800) 359-3591. When returning an item for repair, securely pack the unit with a copy of the original sales receipt, which is required as the proof of purchase for warranty repairs. Send the unit, freight charges prepaid, to Airguide Publications, Inc., 1207 Pine Ave., P.O. Box 1288, Long Beach, CA 90801. To obtain warranty service, an original or copy of the sales receipt from the original retailer is required. Airguide Publications, Inc. will not replace missing components from any package purchased through an online auction.

The **FLY-Wi GPS** has no user-serviceable parts. Should you ever encounter a problem with your unit, please ship it to Airguide Publications, Inc. for repairs. The **FLY-Wi GPS** is fastened shut with screws. Any attempt to open the case to change or modify the unit in any way will void your warranty and may result in permanent damage to the equipment.

Contact Information

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