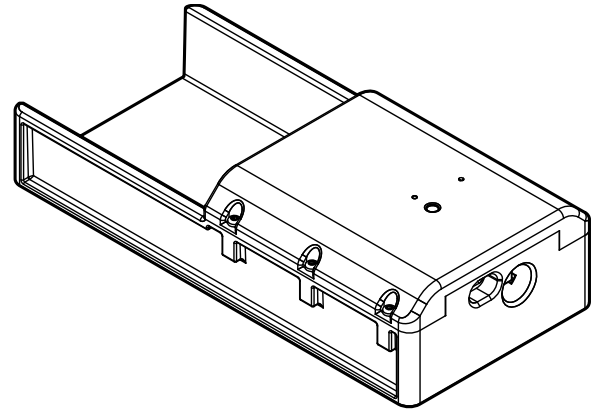# BA30 Smart Dock

KEY FEATURES

The Smart Dock allows you to:

- Charge a BA30 LiPo battery when used with a Dephy BA30 Charger (purchased separately)
- Put the BA30 in Nap mode (ultra-low power mode for extended storage) or wake it up with the press of a button
- Connect your BA30 to your PC via USB to visualize internal data with Dephy's Plan GUI

COMPLIANCE

- This device complies with Part 15 of the FCC Rules
- CAN ICES-003(B) / NMB-003(B)
- Compliance information continues on page 3
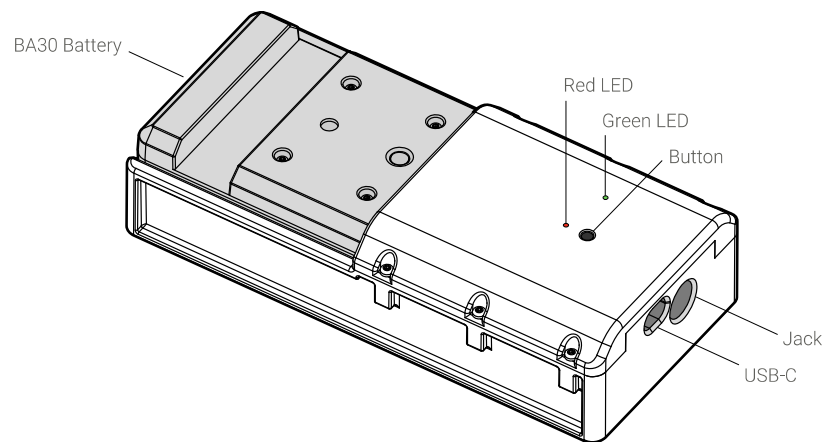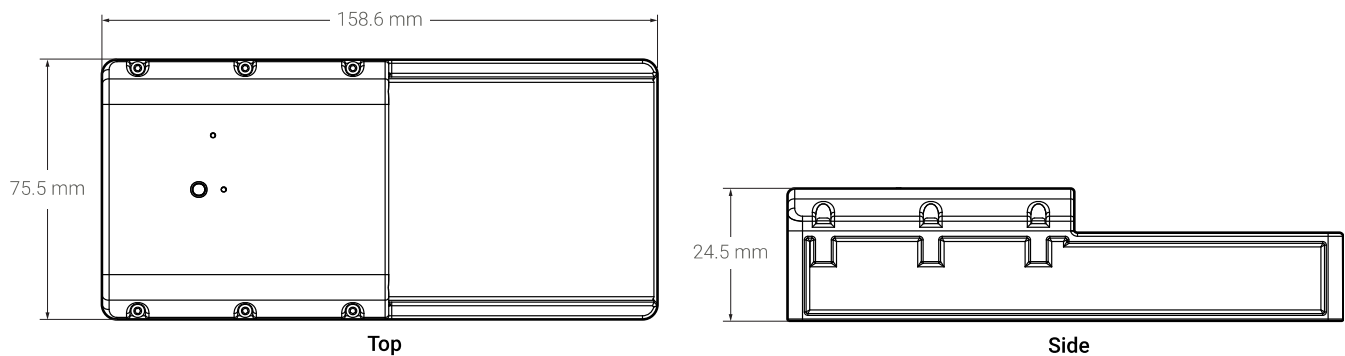
FIGURE 1. SMART DOCK WITH BATTERY

FIGURE 2. SMART DOCK DIMENSIONS

Top

Side

DEPHY
BEYOND NATURE

SAFETY INFORMATION

- **Make sure to read and understand the BA30 LiPo Battery Data Sheet Safety Guide as well as dephy.com/safety before using this Smart Dock with a BA30 LiPo Battery.**
- Do not connect USB-C cable and Dephy Charger at the same time.
- Do not connect anything other than a Dephy Battery Charger to the barrel jack.

TECHNICAL DETAILS

- The USB port is for data only. It cannot be used to charge the BA30 LiPo Battery or to power other devices from the BA30 LiPo Battery.
- **Charging instructions:**
    - Make sure the BA30 LiPo Battery is awake (slow LED pulse).
    - Connect the BA30 Charger to the BA30 Smart Dock using the barrel connector. Plug the BA30 Charger into a wall outlet.
    - Insert the BA30 LiPo Battery in the BA30 Smart Dock. Please refer to the BA30 LiPo Battery Data Sheet for a description of the charging states and associated color codes.
    - Once charging is complete, remove the BA30 LiPo Battery from the BA30 Smart Dock and disconnect the BA30 Charger.
- **To exit Nap Mode:**
    - Power the BA30 Smart Dock with the USB-C port. Do not connect the BA30 Charger.
    - Insert the BA30 LiPo Battery into the Smart Dock.
    - Press the button (briefly).
    - The BA30 LiPo Battery LED will show the rainbow pattern.
    - Charge the battery immediately.
- **Entering Nap Mode:**
    - Power the BA30 Smart Dock with the USB-C port. Do not connect the BA30 Charger.
    - Insert the BA30 into the Smart Dock.
    - Press the button 3 times. The Smart Dock LED will pulse Red. The BA30 LED will pulse Green, then be Steady Red for a brief moment.
    - All LEDs will turn OFF, the battery is now napping indefinitely.
- Button is recessed to prevent accidental presses.
- USB drivers: In case your OS does not automatically install virtual COM port (VCP) drivers please refer to the manufacturer's product page: https://ftdichip.com/products/ft230xs/
- **LED Colors - Smart Dock (not BA30 LiPo Battery)**
    - A green LED is ON when the USB cable is connected. It indicates that the circuit is powered.
    - A red LED turns ON when the button is pressed. It indicates that the internal circuitry is generating the signal required by the BA30.
    - For BA30 LED colors please refer to the BA30 LiPo Battery Data Sheet
- Using the GUI
    - Insert a BA30 LiPo Battery in the Smart Dock.
    - Connect your Smart Dock to your computer with a USB-C cable.
    - Write down the COM port number.
    - Open Plan GUI, select the COM port, and start streaming at 20 Hz.
    - For more details about using Plan GUI refer to the Software User Guide

ACCESSORIES

- BA30 LiPo Battery
- Dephy Battery Charger
- Dephy Plan GUI
- USB-C cable: Assman A-USB31C-20A-200A (Digikey #123-A-USB31C-20A-200A-ND)

Compliance

<div style="border:1px solid black; padding:10px;">

<div align="center">

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

</div>

Unique Identifier: BA30 Smart Dock

Responsible Party – U.S. Contact Information

Dephy, Inc.
63 Great Road
Suite 204
Maynard, MA 01754
admin@dephy.com

FCC Compliance Statement

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.

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Date	May 11, 2021
Revision	C_0002_DS_0003_V02_SMARTDOCK
Created by	JF Duval
Reviewed by	Luke Mooney
Approved by	Matt Mooney *MgM*
Purpose	Datasheet for the BA30 Smart Dock that has been reviewed and approved for release