

# AMA Advanced Flight System Committee 2024 Remote ID Modules Status Report



\$89.00

**HOLY-STONE-RID01**

26 mm

14 mm

**Blue Mark \$107**



17 mm



configuration button and LED

aux power connecto

power connector

**Dronetag Basic Solution (BS)**

## Basics of a Remote-ID Module

[amadistricti@modelaircraft.org](mailto:amadistricti@modelaircraft.org)

**The Primary Components of a RID-module** are the GPS Receiver and the Bluetooth Transmitter. The purpose of the GPS Receiver is to acquire dynamic data on the location of the model aircraft its latitude, longitude, and altitude, from its launch point through its flight path and until it lands. The Bluetooth Transmitter's purpose is to broadcast by means of radio waves the dynamic data and a time mark at least every second, and static data like the serial number of the RID-module every four seconds to any personal wireless devices in range. This could be the smartphones of the public, law enforcement, critical infrastructure managers, or air traffic controllers for safety, security, or situational awareness.

**The GPS Receiver determines the model aircraft's** location by measuring the time it takes to receive radio wave signals from at least four satellites and subtracting the time the signal was transmitted from the time it was received to determine its distance from each satellite. The extrapolated GPS coordinate distances for each time mark of signal data are converted into the model aircraft's location as latitude, longitude, geometric altitude, and calculated velocity data at the time of take-off (launch position of UAS) and while in flight in the National Air Space.

**The Bluetooth Transmitter's embedded microcontroller (MCU)** inputs the GPS's location and velocity data of the model aircraft for each time mark into its random-access memory (RAM) for dynamic data. The MCU's read-only flash memory for static data is factory configured with the fixed serial number of the RID-module which the user provides to his/her FAA registration account number. The MCU processes the content data of both MCU memories using a software algorithm to turn the data elements into individual packets. The packets are each sent via frequency hopping radio waves using 40 different frequencies in the 2.402 – 2.481 GHz ISM band at a speed of 2 Mbit/s. in a process called advertising messages because they don't require acknowledgment or pairing with a person's smartphones that's within range receiving the messages being broadcast and displayed on their device.

# 2024 REMOTE-ID MODULES REPORT

AMA Advanced Flight System Committee

Andy Argenio – AMA District 1 VP

[amadistrict1@modelaircraft.org](mailto:amadistrict1@modelaircraft.org)

AMA's Advanced Flight Systems Committee members Tyler Dobbs, Tony Stillman, and Andy Argenio have been participating in meetings since 2020 with developers of Remote-ID (RID) modules to evaluate their systems, specifications, and test results. In the past few years AMA members flew model airplanes with modules affixed to them from seven of the manufacturers. The modules tested proved to be easy to set up, configure, and use the recommended cell/iPad display apps. The position data of longitude, latitude, and altitude including the serial number, velocity, and the flight tracking broadcasted and displayed on cell phones/iPads were accurate at ranges over a kilometer. There wasn't any noted RF interference with the onboard R/C systems.

**On March 16, 2024, recreational RC flyers will have to affix an FAA-approved RID module on/in their model aircraft to fly at other than their club FRIA sites.** To aid flyers who may want to purchase a module the online PDF version of this AMA RID Module Status Report is updated when a module is listed on the FAA Declaration of Compliance webpage. This report allows pilots to view a chart on page 2 that lists each of the RID modules with their prices and specifications for easy comparisons with active links to seller's websites and datasheets on the GPS receiver and Bluetooth (BT) broadcast module's chips for those who want to explore more technical data.

**All the modules listed have met or exceeded the FAA's § 89.320 minimum performance requirements** including ASTM F3411-22a standards. Today's GNSS/GPS receiver module chips can achieve horizontal position accuracies of between 5ft. to 10 ft. and vertical accuracy of 16 ft. or less 95% of the time. This exceeds FAA's horizontal accuracy requirements of 100 ft., and vertical accuracy of 150 ft. 95% of the time. The maximum broadcast range of the modules is limited to the Bluetooth (BT) range of about 2 km.

**When this report was updated (3/18/24), there were 18 Remote-ID modules** on the page 2 chart that included **16 plug & play** modules and **2 for drones already equipped with GPS**. The following **6 modules** from uAvionix, Pierce Aerospace, FliteTest, Horizon Hobby, Holy Stone and Z-RID are **available in the USA** for ordering. The popular modules from Dronetag in the Czech Republic, and Blue Mark in the Netherlands, may also be ordered and shipped to the USA. Dronetag is expected to have a distributor retailing their modules in the USA soon.

**Prices vary because the RID module may be with or without** battery and case or have different versions of GNSS/GPS satellite receiver and Bluetooth (BT) broadcast module chips. The ultra-micro size and lightweight module chips and those with better position accuracy, and range cost more. The BT 5.0/5.1 version chips cost more because they draw much less current, provide more hours of runtime, and at 2Mb/sec doubling the data transmit rate and providing better error correction than the older BT 4.0+ versions. Those with features that allow for logging of flight data or data telemetry to user's transmitters and/or network capability will cost more. When and where manufacturing is done and shipped from can add to selling prices. FAA's \$50 estimate cost of modules in 2020 was based on module chips that are now obsolete with less transmission range of data and accuracy.

We recommend that members who want to fly at non-FRIA sites using RID modules keep checking the following chart at [www.amadistrict-i.org/rids](http://www.amadistrict-i.org/rids) to determine RID module selling prices, availability, and specifications.

	A	B	C	D	E	F	G	H	I
	RID-Module & Website	Availability	Price	Weight	Size inch	Battery	Bluetooth IC Chip	GPS IC Chip	Features
1	<a href="#">uAvionix - pingRID</a> Montana, USA	In stock	\$299	21 gr.	1.0 x 0.7 x 1.7	2 hours Lipo	<a href="#">ESP32-C3-MINI-1</a> v5.0	<a href="#">SAM-M8Q</a>	In a case
2	<a href="#">Blue Mark – Db121pcb</a> Netherlands, Eur.	In stock	\$86	5 gr.	1.3 x 1.4 x .19	Requires 5-14 v	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<a href="#">ATGM336H 5N31</a>	PC board
3	<a href="#">Blue Mark – Db121</a> Netherlands, Eur.	In stock	\$108	11 grams	1.4 x 1.5 x 1.0	Requires 5-14 v	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<a href="#">ATGM336H 5N31</a>	In a case
4	<a href="#">Blue Mark – Db120</a> Netherlands, Eur.	In stock	\$119	25 gr.	1.9 x 1.5 x 1.0	3 hours Lipo	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<a href="#">ATGM336H 5N31</a>	In a case
5	<a href="#">Blue Mark-Db122fpv</a> For drones with GPS	In stock	\$64	4.5 gr.	1.0 x 1.0 x 0.16	Requires 4.5-15 v	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<b>For Drones with GPS</b>	For FPV
6	<a href="#">Drone Def. AeroPing</a> United Kingdom	In stock	\$190.49	38 gr.	1.8 x 2.3 x 0.79	8 – 14 hours	<a href="#">ESP32-C3-MINI- 1U</a> v5.0	GPS chip Not published	In a case
7	<a href="#">Dronetag - Beacon</a> Czech Republic	In stock	\$219 eBay	16 gr.	1.5 x 1.0 x 0.6	8 – 16 hours	<a href="#">LAIRD BL653</a> v5.1	<a href="#">MIA-M10Q</a>	In a case
8	<a href="#">Dronetag Mini network</a> Czech Republic	In stock	\$325	32 gr.	2.1 x 1.3 x 0.6	8 - 16 hours	<a href="#">LAIRD BL653</a> v5.1	<a href="#">MIA-M10Q</a>	In a case Network
9	<b>Discontinued</b>			.					
10	<a href="#">Dronetag-Basic Solution</a> Czech Republic	In stock	\$89	3 gr.	0.66 x 0.55 x 0.19	Requires 3.3-17 v	<a href="#">ANNA-B412</a> v5.1	<a href="#">MIA-M10Q</a>	PCB/case Telemetry
11	<a href="#">Dronetag-DRI</a> Czech Republic	In stock	\$55	1.5 gr. No case	0.89 x 0.62 x 0.19	Requires 3.3-17v	<a href="#">ANNA-B412</a> v5.1	<b>For Drones with GPS</b>	PC board
12	<a href="#">Aerobits idME</a> Poland	In stock	\$108	4 gr.	1.24 x 0.61 x 0.29	Requires 5.0v	<a href="#">ESP32 SERIES</a> v5.0	<a href="#">ZOE-M8B</a>	In a case
13	<b>Discontinued</b>								
14	<a href="#">B1 Remote ID Beacon</a> Pierce Aerospace USA	In stock	\$275	30 gr.	2.87 x 0.94 x 0.75	6 hours Lipo	<a href="#">LAIRD BL654</a> v5.0	GPS chip Not published	In a case
15	<a href="#">EZ-ID</a> FliteTest Ohio, USA	In stock	\$99.99	10 gr.	Not published yet.	Requires 2S to 8s	<a href="#">NFR52849</a> v5.0	<a href="#">SAM-M8Q</a>	PC board or case
16	<a href="#">SKY ID</a> SPMA9500 Horizon Hobby IL, USA	In stock	\$99.99	14 gr.	1.38 x 0.90 x 0.65	Requires 3.3-9 v	Bluetooth v5.0 not publish yet	<a href="#">MIA-M10Q</a>	In a case Telemetry
17	<a href="#">HOLY STONE</a> HSRID01 AMAZON, USA	In stock	\$89.99 \$77 eBay	14 gr.	1.54 x 1.18 x 0.51	5 hours Lipo	Bluetooth v5.0 Not published	GPS chip Not published	In a case
18	<a href="#">Z-RID Lite</a> USA Sales	<b>10 Day Ship time.</b>	\$84.99	30 gr.	1.57 x 1.57 X 1.18	4 hours Lipo	Bluetooth v4-v5 Not published	GPS chip Not published	In case

**DRONE SCANNER APPS:** One of the most popular Apps available for iOS and Android devices. **For android:**

[https://play.google.com/store/apps/details?id=cz.dronetag.dronesscanner&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=cz.dronetag.dronesscanner&hl=en_US&gl=US) and **for iPhone:**

<https://apps.apple.com/us/app/drone-scanner/id1644548782>

**AIR SENTINEL APP:** For Android devices available at:

[https://play.google.com/store/apps/details?id=com.app.airsentinel&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=com.app.airsentinel&hl=en_US&gl=US) and

**OPEN DRONE ID OSM:** For Android devices available at:

at [https://play.google.com/store/apps/details?id=org.opendroneid.android\\_osm&hl=en&gl=US](https://play.google.com/store/apps/details?id=org.opendroneid.android_osm&hl=en&gl=US)

**NOTE – For a FliteTest EZ-ID** module uses a **proprietary APP** since it requires registering their EZ-ID module to use/open the App and although the App works, its tracking accuracy from reviewers wasn't as good as the Drone Scanner App which also provides additional useful data information beyond the EZ-ID and FAA requirements.

Unfortunately, not all cell phones especially older legacy models work with all the current Remote-ID modules which utilize Bluetooth 4+/5 to receive the advertised message.

CHART IS UPDATED AS NEW RID MODULES BECOME AVAILABLE  
For the latest versions of this report go to <https://amadistrict-i.org/rids>

(1)



# pingRID

\$299.00

uAvionix Corporation  
300 Pine Needle Lane  
Bigfork, MT 59911  
(844) 827-2372

Meeting the FAA’s Remote ID mandate has never been easier.

The pingRID module is small, lightweight, and easy to attach to any drone, pingRID will keep you flying with trusted aviation-grade avionics from uAvionix. Whether you’re flying for recreation or commercial part 107, pingRID has you covered.



## uAvionix announces pingRID for FAA Mandated Remote ID Broadcast for Drones

02/28/23 | Press Release

Remote ID Broadcast module for drones, pingRID. The aviation-grade, small, lightweight, and easily attached transmitter is the fastest and simplest way for drone operators to be compliant with the FAA Remote ID rule. uAvionix is pleased to apply its avionics experience by delivering a product that meets the FAA’s requirements without sacrificing the drone operators’ time or aircraft performance,” notes Paul Beard, uAvionix CEO and Academy of Model Aeronautics Hall of Famer. “A license plate for your drone needn’t be complex or require an application to run and with pingRID, you simply charge, attach and fly – it’s that easy.”

The uAvionix pingRID comes pre-configured and ready for use out of the box. After assigning the pingRID unique identification number to the aircraft’s registration with the FAA, operators are free to attach the battery-powered device to their drone and prepare for flight. A simple set of LED indicators provides status on the battery charge, device readiness for flight, and inflight operations. The ultra-compact, lightweight design fits most aircraft without impacting performance, and is quickly rechargeable via USB-C.

### Tech Specs

Specification	Value
Compliance	FAA 14 CFR Part 89, DoC RID000000132, ASTM F3411-22a
Protocols	Bluetooth 4 Legacy, Bluetooth 5 Long Range
Frequency	2402 MHz to 2480 MHz
Size	25.40 x 16.63 x 43.42 mm
Weight	21 grams
Charging Connector	USB-C
Battery	Internal Li-ion (740 mWh)
Indicators	Charge LED, Status LED 2 hours on a single charge

[Drone Beacon Transponder](#)

[FAA Compliance Report](#)

[Digi-Key Bluetooth Chip Datasheet](#)

(2)



DroneBeacon Db121pcb RemoteID Broadcast Module

† \$86.00

(3)



DroneBeacon Db121 RemoteID Broadcast Module

\$108.00

(4)



DroneBeacon Db120 RemoteID Broadcast Module

\$119.00

FAA approval [PRODUCT PAGE](#)  
[RID000000089](#)

[MANUAL](#)

**Short-range radio**

Bluetooth and WiFi 2.4GHz, output power (ERP): + 20 dBm (100 mW)

**Positioning**

GPS, GLONASS, 2.5m positioning precision < 35 seconds for first fix

**Antennas**

3 dBi WLAN/BLE antenna (IPEX connector)

0 dBi GPS antenna (IPEX connector)

**Power**

2-pin JST-GH 1.25mm connector 5 – 14 V

auxiliary unpopulated 2.54mm 2-pin header 5 – 14 V

**LED lights**

status, configuration mode

**Fastening mechanism**

4x M2 screws

**Operating temperature** -5°C to +40°C

**Dimensions** - 33 x 35 x 5 mm

**Weight** - 5 grams (including antennas)

**(5) Db122fpv FOR FPV OPERATIONS**

*Bluetooth broadcast module only and will require a GPS receiver.* \$76.00

**Size** - 01x01x0.16

**Weight** - 4.5 grams

FAA approval [PRODUCT PAGE](#)  
[RID000000088](#)

[MANUAL](#)

**Short-range radio**

Bluetooth and WiFi 2.4GHz, output power (ERP): + 20 dBm (100 mW)

**Positioning**

GPS, GLONASS, 2.5m positioning precision < 35 seconds for first fix

**Antennas**

0 dBi WLAN/BLE antenna (internal omni-directional high-performance PCB antenna)

0 dBi GLS antenna

**Power**

2-pin JST-GH 1.25mm connector 5 – 14 V

**LED lights**

status, configuration mode

**Enclosure**

plastic (nylon)

**Fastening mechanism**

3M dual-lock or M5 screws using the screw noses

**IP rating**

IP43

**Operating temperature**

-5°C to +40°C

**Dimensions**

36 x 38 x 28 mm.

**Weight** - 11 grams

FAA approval [PRODUCT PAGE](#)  
[RID000000058](#)

[MANUAL](#)

**Short-range radio**

Bluetooth and WiFi 2.4GHz, output power (ERP): + 20 dBm (100 mW)

**Positioning**

GPS, GLONASS, 2.5m positioning precision < 35 seconds for first fix

**Antennas**

0 dBi antenna (internal omni-directional high-performance PCB antenna)

**Battery**

LiPo 3.7V 600 mAh, battery life > 3 hours charging, 5V USB-C, 1 hour from a discharged state

**LED lights**

charging, battery level (4x), configuration mode

**Enclosure**

plastic (nylon)

**Fastening mechanism**

3M dual-lock or M5 screws using the screw noses

**IP rating** IP43

**Operating temperature**

-5°C to +40°C

**Dimensions**

48 x 38 x 28 mm.

**Weight** - 25 grams

## (6) Drone Defence AeroPing

[AeroPing Website](#)

[FAA Compliance Report](#)

[ESP32-C3-MINI-1U DATASHEET](#)

[Bluetooth Manual ESP32-C3-MINI-1U](#)

[Digi-Key Bluetooth Chip](#)



Drone Innovation Centre,  
Retford, UK  
+44 (0) 843 289 2805  
info@dronedefence.co.uk



AeroPing operates in a highly independent fashion. It has its own power source and sensors for position, altitude, temperature, pressure, speed and direction.

Simply attach it easily to a drone, and it is ready to be used.

Data can then be accessed in real-time by drone fliers and any relevant authorities **with the necessary permissions** through our **AeroTracker platform**. **(NOTE MAY NEED RECONFIGURATION TO WORK IN USA)**

AeroPing RRP is **\$ 190.49 per module**, to get additional info go to the AeroPing [website](#) and complete a form.

## (7)

### Dronetag Beacon

[Dronetag Beacon Website](#)

[FAA Compliance Report](#)

[Bluetooth Manual Laird BL653](#)

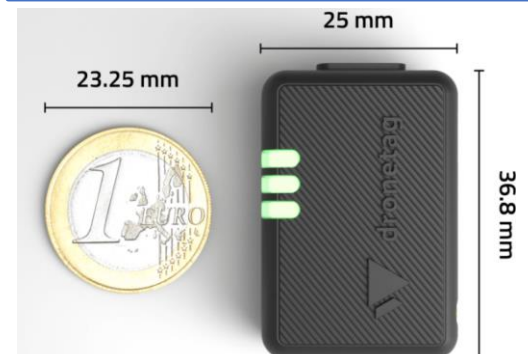
[BUY INFO CLICK \\$ 219](#)



Dronetag s.r.o. Veltruská 602/16  
190 00 Praha 9, **Czech Republic**  
+420 602 870 462  
info@dronetag.cz

[Digi-Key Bluetooth Chip](#)

[BL653 Chip Datasheet](#)



**Short-range radio** - Bluetooth 2.4GHz  
**Sensors** - GNSS, barometer, accelerometer  
**Positioning** - GPS L1, GLONASS L1, Galileo E1, SBAS  
**Built-in Antennas** Bluetooth and GNSS  
**Optional Antennas** Bluetooth via MMCX plugs  
**External ports** 3.3V extension connector and 5V Micro USB  
**Battery** LiPo 3.7V 200 mAh  
**Battery life** 8-16 hours (depending on the configuration)  
**Charging** 5V Micro USB

**Charging time** - 2 hours from a discharged state  
**Average current consumption** - 15mA  
**Maximum current consumption** - 100mA  
**Enclosure** - plastic  
**Fastening mechanism** - 3M Dual-lock SJ4570  
**IP rating** - IP43  
**Operating temp.** -20 °C to +60 °C (-4 °F to 140 °F)  
**Dimensions** - 37 × 26 × 16 mm (1.5 × 1.0 × 0.6 in)  
**Weight** - 16 grams (0.56 oz.)

**Slap-on device so your drone can legally fly.** Effortless way to let your drone fly safe & compliant in EU and US regions. Direct/Broadcast Remote Identification device compatible with any drone.

What is the difference between this product and ESP32-based ones?

Some Remote ID manufacturers tend to select ESP32 microcontrollers as the base of their OEM solutions without further research. However, *ESP32 systems are well known for questionable production quality, common overheating, electromagnetic noise, and interference issues.* Since Remote ID is a crucial aircraft component, its malfunction can easily force the drone to land in a dangerous situation. **Even though ESP32 MCUs can be more price-competitive, we will never allow our customers to take such unnecessary risks.** Therefore, Dronetag DRI is built on industrial components of non-Chinese origin, and each unit goes through production testing.

**Why is it not a good idea to use Bluetooth and Wi-Fi RID simultaneously?**

Most Remote ID implementations transmitting Bluetooth and Wi-Fi simultaneously don't implement radio coexistence protocols. This means the radio chip is overwhelmed with transmitting requests despite insufficient radio capacity to send out those data. The result is that the device sends out corrupted data at unreliable frequencies (not fulfilling the requirements in standards) while **creating unnecessary electromagnetic noise and interference.**

**Where is the device manufactured?**

All the devices are manufactured in Prague, Czech Republic, Europe. But the manufacturing site can be changed depending on the customer's needs.

Dronetag Beacon is the bare minimum solution for Direct / Broadcast Remote via Bluetooth 4 and 5. It ensures that your drone is detectable to all air traffic participants and allows you to track the drone in real-time. It may be attached to any drone regardless of its manufacturer and makes you complain with new EU and US regulations.

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**Dronetag Mini**

[Dronetag Mini Website](#)

[FAA Compliance Report](#)



**[BUY INFO CLICK \\$325](#)**

[Bluetooth Manual Laird BL653](#)

[Digi-Key Bluetooth Chip](#)

[BL653 Chip Datasheet](#)



**Professional Remote ID** Designed for professional pilots. Combination of both Network & Direct / Broadcast Remote ID to make your drone flight safe & compliant.

**Network Remote Identification**

Dronetag Mini transfers your drone's position and identification to our cloud. By displaying the real-time data in our app Dronetag enables advanced drone operations and coordination of manned and unmanned traffic in the same airspace.

**Direct (Broadcast) Remote Identification**

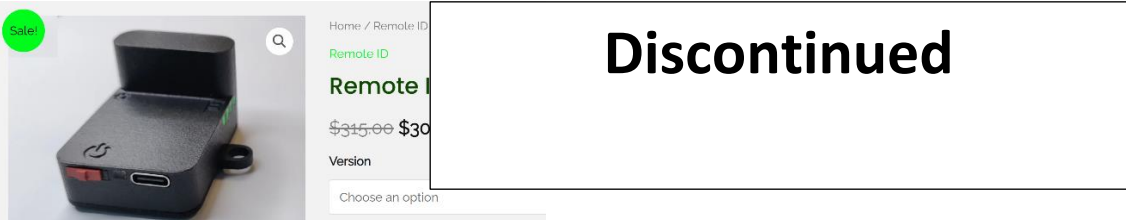
Your drone's info is transmitted via Bluetooth to up to 1.5 km (0.9 miles). With our Direct Remote ID, you fulfil all the new regulation necessities, and you are free to fly & touch the sky!

- Cellular** - LTE-M and Narrowband IoT (NB-IoT)
- Cellular bands:** 3, 8, 20 for the EU and 2, 4, 12 for the US
- Bluetooth** 2.4GHz
- Sensors** - GNSS, barometer, accelerometer
- Positioning** - GPS L1, GLONASS L1, Galileo E1, SBAS
- SIM card** - Chip SIM soldered on the mainboard
- Built-in Antennas** Internal LTE, Bluetooth and GNSS
- Optional Ant.** External LTE and Bluetooth via plugs
- External ports** 3.3V extension connector and 5V
- Micro USB Battery** LiPo 3.7V 500 mAh
- Battery life** 8-14 hours (depending on the configuration)

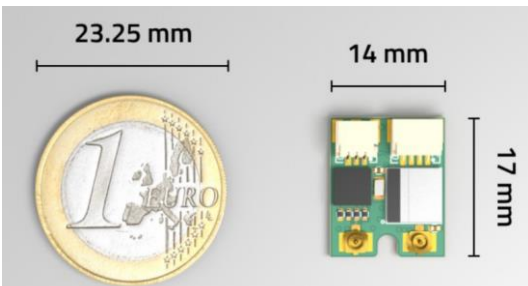
- Charging** 5V Micro USB
- Charging time** 2 hours from a discharged state
- Average current** consumption 50mA
- Maximum current consumption 1A
- Enclosure** plastic
- Fastening mechanism** 3M Dual-lock SJ4570
- IP rating** IP43
- Operating temperature** -20 °C to +60 °C
- 5°C to +40°C
- Size** 54x35x15 mm (2.1x1.3x0.6 in)
- Weight** 32 grams (1.1 oz)

**(9) Zephyr Systems**

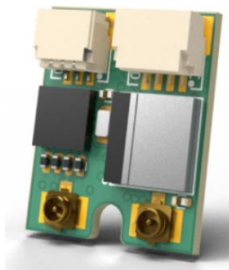
**A US reseller of the OEM's Blue Mark Db120 Remote-ID module. All specifications are the same as module (2).**



**(10)**



[Dronetag BS Website](#)



- [FAA Compliance Report](#)
- [Bluetooth Manual Anna-B412](#)
- [DigiKey Anna-B412](#)
- [DigiKey MIA-M10Q](#)

**DRONETAG BASIC SOLUTION (BS) – THE RETAIL PRICE IS \$89.00**

Dronetag BS is the best Remote ID solution for FPV pilots, aeromodelers, and recreational pilots. BS offers affordable Broadcast / Direct Remote capability as defined by FAA and EASA. It is the smallest and lightest Remote ID solution making it easier than ever for aeromodelers and FPV pilots to comply with regulations while enjoying their favorite hobby.

External Bluetooth and **Positioning antennas** are not included, you may use your own antennas, or **you can buy one of these:**

- o [Combined Bluetooth + GNSS Positioning Antenna \(U.FL\)](#) \$9.90
- o [GNSS Positioning Antenna - Compact Size \(U.FL\)](#) \$4.90
- o [Bluetooth Antenna - Ultra Small \(U.FL\)](#) \$4.90
- o [Bluetooth Antenna - High Performance \(U.FL\)](#) \$4.90

Dronetag s.r.o. Veltruská 602/16  
190 00 Praha 9, Czech Republic  
+420 602 870 462

The BS can be powered from up to 17V power input, or you can consider optionally using the small 3.7V Li-Po batteries (e.g., 50 mAh can run up to two hours). Batteries must have a JST SH 3-pin connector.

**Data sheet**

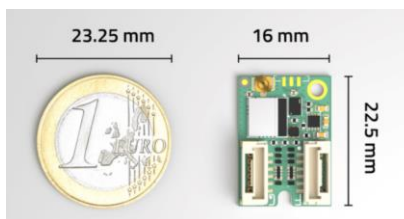
Remote ID types Broadcast (US)  
Short-range radio Bluetooth 2.4GHz  
Average current consumption 15 mA  
Maximum current consumption 50 mA  
Mounting - Adhesive or Velcro  
Operating temperature -40°C to +85°C  
Dimensions- 0.66 x 0.55 x 0.19 in  
**Weight – 3 grams, No Case or Battery**  
Standard ones - configurable in Dronetag app  
Input voltage 3.3 – 17V  
Input voltage regulator  
Low-noise buck converter  
Remote ID Standards  
ASD-STAN EN 4709-002 & ASTM F3411-22  
Certifications Uses FCC/CE approved module  
Remote ID technology  
Bluetooth 5.1 Long Range 1.86 miles/3 km

**Product Details** (new adding 2 wire antennas)

- Easy installation and compatibility with various aircraft hardware setups
- Real-time tracking and Remote ID compliant with the FAA rule.
- Powered from the existing aircraft or a small LiPo battery (up to 17V input) **No LED Status Notification Yet**
- Configuration and firmware updates via Dronetag App
- Can be used as GNSS input to Betaflight controller\*
- Can be used as a telemetry module for popular RC radios\* Spektrum & Futaba
- Flight information logging to flash memory for easy visualization in Dronetag App, Google Earth, or similar\*

\* Functions that will be introduced later via firmware update

(11)



- [Dronetag DRI Website](#)
- [FAA Compliance Report](#)
- [Bluetooth Manual Anna-B4](#)

**\$ 55.00**

**For manufacturers to equip their new drone models** with technology for Direct / Broadcast remote identification (RID). Connect our factory-ready modules to your drone’s flight controller. Dronetag DRI is compatible with all standard Pixhawk controllers running PX4 or Ardupilot. Plug it into your TELEM port, configure the appropriate baud rate, and you are ready to fly. DRI may come with a U.FL connector for an external antenna (for carbon fuselage) or with an internal antenna already on board.

(12) **Aerobits**<sup>®</sup>

ul. Przestrzenna 11 70-800  
Szczecin, Poland

Aerobits is a Polish technology company that has been operating on a global market since 2017. We deal with miniaturization of avionic systems, such as aviation transponders. All solutions are based on a patented technology that allows to process radio signals on very small surfaces.

**NOTE: These modules from Aerobits idME are not FAA compliant YET, but the specs are provided since they have intentions of seeking FAA compliance as other European mfg. have recently done.**



[PRODUCT INFO](#)

**idME**

Designed to meet requirements of remote drone identification and localization in ASTM/ASD-STAN standard. Using the BLE broadcast technology the device provides surveillance and drone operator identification capability based on any modern mobile devices such as smartphone or tablet.

[PRODUCT INFO](#)

**idME+**

idME+ is designed to meet requirements of remote drone identification and localization in ASTM/ASD-STAN standard. Using the BLE broadcast technology, the device provides surveillance and drone operator identification capability based on any modern mobile devices such as smartphone or tablet.

[PRODUCT INFO](#)

**idME PRO**

idME PRO is the most advanced Remote ID with Wi-Fi and BLE technology. It can broadcast in dual technologies: Wi-Fi (NAN and Beacon frames) BT (BLE, and legacy frames). Using the BLE and Wi-Fi broadcast technology, the device provides surveillance and drone operator identification capability based on any modern mobile device such as a smartphone or tablet.

[CLICK FOR USER MANUAL AND IDME DATA SHEETS](#)

[CLICK FOR USER MANUAL AND IDME+ DATA SHEETS](#)

[CLICK FOR USER MANUAL AND IDME PRO DATA SHEETS](#)

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D063550

**NOT FAA COMPLIANT WON'T WORK IN USA**



Application	Frequency Range	Final Action Date
Application Details Not Loaded Yet... Exhibits Not Loaded Yet...		

**FAA Accepted but Exhibits not posted yet!**  
Check at: <https://fcc.report/FCC-ID/D063550>

Their unit is small in size, 20x30x8 mm very thin. It won't have the extra weight and cost of a battery and case... and may use a Y extension to the receiver's battery for power. It operates on 3.5 - 8.4 v. and draws only 18 ma. It appears to use internal antennas and a simple shrink-wrap casing like an ESC or some satellite receivers. We are waiting for Futaba & FAA to post additional information.

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# B1 Remote ID Beacon

**\$274.99**

The B1 Remote ID beacon offers superior local broadcast performance to meet the FAA's Remote Identification requirements. The B1 comes from a military heritage and has been proven in national security operations with commercial and public safety operators. It is now available to all.

Made in the USA (With Import and US Components).  
Customer support in the USA.  
Exceeds the ASTM F3411-22 Remote ID Standard.

[\*\*WEBSITE\*\*](#)

**Features:**

- Built from Military Heritage
- High Performance Local Broadcast
- Meets and Exceeds ASTM Standards
- 2+ km Range
- 6+ hr Runtime per Charge
- Designed and Made in the USA

**PIERCE AEROSPACE INC**

info@pierceaerospace.net  
Indiana IoT Lab  
Fishers, IN 46038

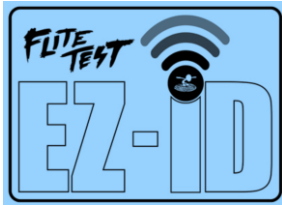
<p><b>Radio Specifications:</b></p> <p>Antenna Type    PCB Antenna</p> <p>Frequency        2400-2480MHz</p> <p>Radiation Pattern    Omnidirectional</p> <p>Max Output Power    +18dBm conducted</p> <p><i>Operational output power within FCC/ISED limits</i></p>	<p><b>Electrical Specifications:</b></p> <p>Input Voltage Rating    3.75V - 6.00V</p> <p>Input Amperage Rating    225 mA max</p> <p>Input Wattage Rating    843 mW max</p> <p>Battery Type            Lithium Polymer</p> <p>Battery Capacity        400mAh</p> <p>Battery Endurance        6hr</p> <p>Charge Time              4hr</p>	<p><b>Mechanical Specifications:</b></p> <p>Dimensions (LWD)        73mm x 24mm x 19mm</p> <p>Weight                    30g</p> <p>Mounting                 Two Cable Tie Slots</p> <p>Connector                USB-C</p> <p>Operating Temperature    -20 °C to + 76°C</p> <p>Storage Temperature      10°C to + 70°C</p> <p>Operating Humidity        0% - 95% non-condensing</p> <p>Storage Humidity         0% - 70% non-condensing</p>
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[\*\*FAA Compliance Report\*\*](#)

[\*\*Bluetooth Manual  
Laird BL654\*\*](#)

[\*\*BL654 Chip  
Datasheet\*\*](#)

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**\$99.99**

**WEBSITE**

**Bluetooth Module  
NRF52840**

**GPS Module  
SAM-M8Q**

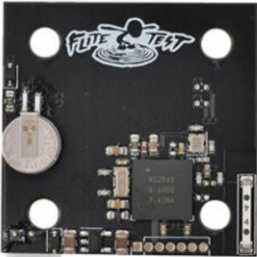


**With Connector or**

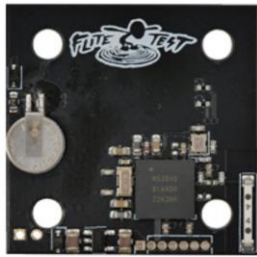
**Without Connector**

Flite Test, in conjunction with Tritium Electronics, a leader in electronics assembly, has designed a USA-developed and manufactured Remote ID Broadcast Module, the Flite Test EZ ID which will be available in production volumes in August of 2023.

FT EZ ID provides an excellent, high-value solution for both RC model airplane pilots as well as recreational drone pilots. Its light, has internal antennas, and has integrated GPS and Bluetooth 4 and 5 transmitters. The FT EZ ID is also designed to be installed easily and then removed and installed on a pilot's entire fleet of recreational aircraft.



**With Connector or**



**Without Connector**

- The GPS is integrated in the single-board, FT EZ ID and the chip is GPS an uBlox SAM-M8Q.
- The Bluetooth transceiver is a Nordic NRF52840 chip.
- The average power draw of the FT EZ ID is 10mA. This may spike as high as 100mA when establishing an initial fix and during other short operation intervals.
- The FT EZ ID has been tested in an unobstructed area transmitting at a distance of 1500ft.
- Cold start up is approximately 53 seconds and warm start is usually less than 20 seconds.
- The price of the FT EZ ID covers no recoverable expense to design, prototype and develop software as well as the rapidly rising cost of electronic components.
- FT EZ ID is a purpose-designed remote ID broadcast module for recreational pilots in the USA.
- THE FT EZ ID may be ordered from the Flite Test online store as well as select online retailers in the recreational RC and FPV industry.
- Software will be added in future for additional features beyond broadcasting.
- THE FT EZ ID transmits Bluetooth 4 and 5 for mobile devices.
- Flite Test Customer Support is available to respond to questions about the FT EZ ID. However, the FT EZ ID only requires power and then is ready to operate.
- The FT EZ ID may be installed anywhere inside or on the exterior of a recreational aircraft. Radio frequency performance of the FT EZ ID will improve if it is installed on the exterior of an aircraft

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INTRODUCING

# SKYID™

COMING SOON

SkyID is an easy-to-use module for RC aircraft that meets the requirements of the FAA rule of RID (Remote ID) of unmanned aircraft.

LOOK FOR MORE DETAILS COMING LATER THIS SUMMER

Horizon and Spektrum are proud to announce the SkyID Remote Identification Module. This module should be available soon. SkyID provides GPS features through Spektrum telemetry but is also compatible with non-Spektrum radio systems as a standalone device.

**\$99.99**

**Weight – 14 grams**

**Size – 1.38" x .90" x 0.65"**

**Power required – 3.3 – 9v**  
or from RC receivers power

**FAA COMPLIANCE REPORT** [CLICK](#)



Spektrum SkyID Remote ID Module

Watch later Share

Watch on YouTube



Watch Video

### Quick Start Guide

**IMPORTANT:** Know and comply with all laws for the operation of Unmanned Aircraft Systems (UAS).

1. Register your serial number with the FAA.
  1. Open the FAA DroneZone website.
  2. Register and/or log into the DroneZone.
  3. Launch the Drone owners and pilots dashboard.
  4. Select **Manage Device Inventory**.
  5. Select **Add Device**.
  6. Does your drone broadcast remote ID information? Select **Yes**.
  7. Device type? Select **Remote ID broadcast module**.
  8. UAS manufacturer? Enter **Spektrum**.
  9. UAS Model? Enter **SPMA9500 SkyID**.
  10. Remote ID Serial Number? Enter number from sticker on case.



FAA DroneZone



11. Select **Add Device**.

2. Secure the SPMA9500 module to your aircraft.



3. Connect to a Spektrum telemetry port, an open servo port (up to 9v), or a 3.3v to 9v power source.



4. Verify operation by viewing solid LED or Remote ID mobile app.

#### LED Status Guide

Slow flash	Acquiring GPS signal, wait to fly
Solid	Ready, fly safely
Rapid flash	Error, do not fly

5. Fly!



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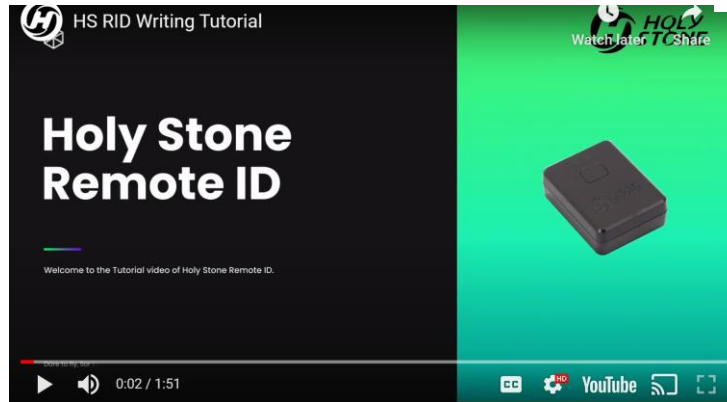


**\$89.99**



IN STOCK AMAZON

**HOLY STONE**  
**HSRID01**  
**AMAZON, USA**  
**SIZE:**  
**1.54 x 1.18 x 0.51"**



**ALSO**  
**QR ACCESS TO VIDEO**

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**ZING REMOTE ID**  
**MODULE \$84.99**



**Made in the USA**

The Z-RID is engineered at MIT and manufactured in California. Other broadcast modules are manufactured and assembled overseas.

**Plug and Play**

The Z-RID is designed to be simple to setup, unlike other broadcast modules on the market. Take it out of the box, turn it on, and you are broadcasting.