

PiAware Bundle Kit



4 USB ports

10/100 Ethernet Port



Full size HDMI port

Micro USB power supply port

Installation Instructions

#1) Plug the FlightAware data receiver shown below into one of the USB ports:



#2) Connect the FlightAware filter shown below to the FlightAware data receiver using the provided pigtail cable.



#3) Connect the FlightAware filter to the antenna using the provided RF cable.

#4) Plug the micro USB cable into the micro USB power supply port.

#5) Plug an Ethernet network cable into the 10/100 Ethernet port or use a WiFi connection (see instructions below)

Setting up WiFi Connection (skip this step if using an Ethernet connection)

#1) Plug a USB Keyboard and USB mouse into the USB ports.

#2) Plug one end of the HDMI cable into HDMI port and the other end into an HDMI monitor or TV.



#3) Click on the following icon circled in red in the top right corner

#2) Select your wireless network name and enter your password.

Registering your Device with Flightware

#1) On any computer that is on the same network as the Raspberry Pi go to <http://flightaware.com/> and in the top left corner click on Join FlightAware to register an account or if you already have one then click on Login and enter your credentials.

#2) After you've registered an account and logged in, go to <https://flightaware.com/adsb/piaware/claim> and follow the instructions to claim your device.

#3) Ensure your antenna is placed somewhere outside with no obstructions to open airspace, after collecting data for about 4 hours or more go to <http://flightaware.com/adsb/stats/user/YourUsername> (replace YourUsername with your actual username from step 2) to view your stats.

Now that you have claimed your device, you can go ahead and configure it for best performance.

Mode S Multilateration (MLAT) MLAT enabled | Send non-ADS-B data for Multilateration (MLAT).

Send command to device Send command

Dissociate Feeder Site [If you do not want this feeder site associated with your account, you can dissociate this feeder site from your account.](#)

[Log](#)

Site information

Data Feed: Live - less than a minute ago
Feeder Check-in: Live - less than a minute ago
Joined: 28-Apr-2016
Longest Streak: 5 days (28-Apr-2016 - Today)

Feeder Type: PiAware (SD Card) 2.1-5
Multilateration (MLAT): Supported / Enabled

Nearest Airport: Barton (Pacoima, CA) ([KPAI](#)) - United States
Not the nearest airport? Click [here](#) to change.

Site identifier: ██████████
Internet IP: ██████████
Site local IP: 192.168.1.204
Web interface: [view live data](#) (requires local network connection)

Antenna elevation above sea level: *Unknown*
Configure antenna elevation above sea level

Location: (34.4606590270996, -118.611175537109)
Location Set: 04/28/2016 (FlightAware estimated.)
Configure location

Statistics

NOTE: Hourly data is reported in the site's local time. Daily data is reported in UTC time.

Coverage Distribution

Show position distribution for: Last 24 Hours

Hourly Collection Graphs (PDT)

ADS-B Positions Reported Last 24 Hours = 2,421

Click on 'Configure antenna elevation above sea level', this is a very important step.

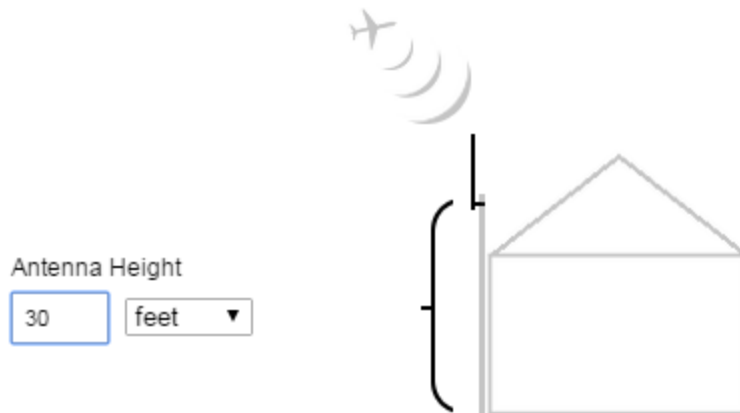
Site 22799 - Geography

X

1. Location

2. Antenna Elevation

- I know my antenna's height above ground level.



- I know my antenna's elevation above sea level (advanced).

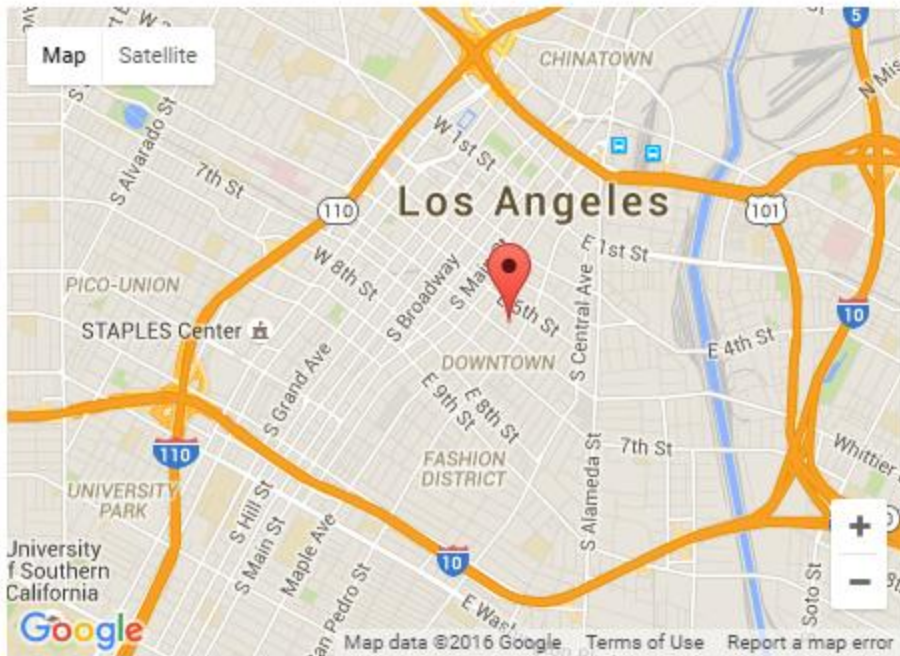
Cancel

Save

Next set up your exact location, you can either drag the pointer or input the coordinates.

Please move the red marker located on the map below to reflect your receiver's location. Your receiver's geographic coordinates are currently set to:

LATITUDE [34.04350413096574](#) • LONGITUDE [-118.24579429626453](#)



I know my receiver's location coordinates (advanced).

Cancel

Next

Now you can control your device by sending different commands:


Site name (private) Custom name for this site shown only to you.

Precision on coverage map For privacy, customize how accurately should FlightAware show your receiver location on maps.


Outage e-mails Get notified when FlightAware stops receiving positions from your site.

Auto-update PiAware software Automatically keep this site's PiAware software up to date.

Mode S Multilateration (MLAT) Send non-ADS-B data for Multilateration (MLAT).

Send command to device 

Dissociate Feeder Site [dissociate this feeder site from your account.](#)



Site information

Data Feed: **Live** - less than a minute ago
 Feeder Check-in: **Live** - less than a minute ago
 Joined: 28-Apr-2016
 Longest Streak: 5 days (28-Apr-2016 - Today)

Feeder Type: PiAware (SD Card) 2.1-5
 Multilateration (MLAT): Supported / Enabled

Nearest Airport: Barton (Pacoima, CA) (KPAI) - United States
 Not the nearest airport? Click [here](#) to change.

Site identifier:
 Internet IP:
 Site local IP: 192.168.1.204
 Web interface: [view live data](#) (requires local network connection)

Ground elevation: *Unknown*
 Antenna height above ground level: 30 feet

Location: (34.4606590270996, -118.611175537109)
 Location Set: 04/28/2016 (FlightAware estimated.)

Statistics

NOTE: Hourly data is reported in the site's local time. Daily data is reported in UTC time.

Coverage Distribution

Hourly Collection Graphs (PDT)

Site name (private) Custom name for this site shown only to you.

Precision on coverage map For privacy, customize how accurately should FlightAware show your receiver location on maps.

Outage e-mails Get notified when FlightAware stops receiving positions from your site.

Auto-update PiAware software Automatically keep this site's PiAware software up to date.

Mode S Multilateration (MLAT) Send non-ADS-B data for Multilateration (MLAT).

Send command to device

Dissociate Feeder Site If you do not want this feeder site associated with your account, you can [dissociate this feeder site from your account.](#)

Note: this log pane refreshes itself automatically every 15 seconds.

```

[2016-05-02 07:47 PDT] miat(2093): using UDP transport to 70.42.6.191:8184
[2016-05-02 07:47 PDT] miat(2093): Input connected to localhost:30005
[2016-05-02 07:47 PDT] miat(2093): Beast-format results connection with localhost:30104: connection established
[2016-05-02 07:47 PDT] installing dump1090...
[2016-05-02 07:47 PDT] *** running command 'dpkg --force-confnew -i /tmp/dump1090_1.2-3_armhf.deb' and logging output
[2016-05-02 07:47 PDT] > (Reading database ... 92502 files and directories currently installed.)
[2016-05-02 07:47 PDT] > Preparing to unpack /tmp/dump1090_1.2-3_armhf.deb ...
[2016-05-02 07:47 PDT] miat(2093): Lost connection to localhost:30005
[2016-05-02 07:47 PDT] miat(2093): Reconnecting in 30.0 seconds
[2016-05-02 07:47 PDT] miat(2093): Beast-format results connection with localhost:30104: connection lost
[2016-05-02 07:47 PDT] > Unpacking dump1090 (1.2-3) over (1.2-3) ...

```

Finally check out the live data



Site identifier: [REDACTED]
Internet IP: [REDACTED]
Site local IP: 192.168.1.204
Web interface: [view live data](#) (requires local network connection)

Antenna elevation above sea level: *Unknown*

[Configure antenna elevation above sea level](#)

Location: (34.4606590270996, -118.611175537109)
Location Set: 04/28/2016 (FlightAware estimated.)

[Configure location](#)

Local Time [Clock Icon] UTC Time [Clock Icon]
[Reset Map] [Settings]

DUMP1090
Altitude: n/a Squawk: n/a
Speed: n/a ICAO (hex): n/a
Track: n/a Lat/Long: n/a

ICAO	Flight	Squawk	Altitude	Speed	Track	Hgs	Seen
a61400	UAL1146	1713	37050	687	172	702	0
a614a8			30275	536	140	701	0
ac9734		0705	31025	535	93	4095	48
ab490a	2786	3311	21850	921	133	5239	2
a53369	ASH5714	3654	35750	520	127	1623	0
a88c87		6614	34975	513	145	3795	0
a8522b	VR0276	1716	30025	510	149	5945	0
a41004	AAL931	6331	30000	509	131	2963	0
a76243	AAL562	3332	37025	503	131	1413	0
a2cd39	N28R	6364	31350	496	144	1606	0
a09091	VR0554	1700	37000	495	125	5022	1
a04641	AAL4	1323	26475	478	56	3407	14
ac4ccc	????????	1776	36975	477	123	2328	0
aa1f5a	????????	0754	36025	474	250	8786	0
ac9e9f	????????	6716	30150	459	81	4497	2
a1dc2a	CP25953	2425	23700	452	90	633	24
a6945d	VR0784	3564	18775	441	145	4538	0
abc51c			22550	439	131	9	6
a23a03		4641	24950	431	55	1034	0
ae094b		4444	59175	423	68	29783	2
ae0146	BA3221	7253	27000	423	103	3842	0
a34501		3142	14300	413	159	4914	0
a02b22	N11PC	6363	26400	409	170	2416	1
aa9d50		2007	37100	407	337	1640	0
a5ca4b			24800	403	134	1005	0
a93a5f			38700	403	294	2208	0
aa2316	AAL170	6730	30000	403	312	1549	47
a71c22	471	2050	32000	399	326	5618	40
aa743f	????????	3207	19500	385	118	4741	0
a15f32			31950	382	340	269	0
a451cf		6713	34000	380	321	2292	1
ab34a3		2033	21425	371	82	2122	1
a7130c	????????	0760	38000	369	303	7158	0
a44095		7312	33050	366	312	1241	0
a164a0	CP25965	6377	14175	365	162	3030	0
a068b0		2402	23000	363	340	2790	0
aa970c			17000	354	305	648	0
ac602a		2005	25050	337	310	3662	0
a83c27		3667	9925	327	160	4443	0
ada0d7	H98LT	3243	6950	295	120	1814	0
a40602		6654	23800	271	126	418	0
ac6e5c	N90RT	7275	14400	223	327	5105	39
aa0a05	CP25795	6311	4075	199	80	4206	1
a7ec34	N608X	4767	13500	176	170	83337	0
a38055	N327LK	0712	15975	158	304	671	0
acdbfa		7242	12450	140	305	1957	0
a84c07	N633X	7356	12400	134	348	1657	0
a785a0		6303	3650	125	197	2430	51
ad4728			12925	0	150	12	0
a09852			28975	0	76	3	0
a61508			25925	0	39	0	0

Enjoy!