

# pingUSB

#### UAVIONIX PING ADS-B USB Receiver QUICK START GUIDE uavionix.com

## specifications

Weight	5 grams
MTL 1090MHz	-84 dBm
Dynamic Range	-81 to 0 dBm
MTL 978MHz	-93 dBm
Dynamic Range	-90 to -3 dBm
Supported Interfaces	USB Serial 57600 bps

### safety

- The Ping Receiver adds an additional layer of situational awareness to aircraft operations in the airspace. Accordingly, users must remain vigilant of surrounding air traffic at all times during flight to ensure safe operation.
- Never operate the software or device in a way that could be dangerous to you, other people or property.
- It is your responsibility to ensure that you understand and comply with all local laws and regulations.

The uAvionix PingUSB ADS-B Receiver provides ADS-B tracking data for use with software such as Virtual Radar Server and services including ADS-B Exchange. It allows tracking of aircraft on both 1090 MHz and 978 MHz.

# 1. connect

**2. load** 

3. launch

4. track



Connect Ping to your Windows PC with a USB Micro-B to USB-A cable.







Download PingUSB Installer (Windows) http://www.uavionix.com/products/pingusb/



Download Virtual Radar Server (Windows) http://www.virtualradarserver.co.uk/Download.aspx 

# install

• Unzip the PingUSB Installer. Run PingSetup.msi and follow the on-screen setup instructions.





## install

- Install Virtual Radar Server
- Run Virtual Radar Server
  - Select "Tools -> Options" and add a Receiver with the following options

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Options					×
Preset Configurations					
Preset Configurations          Data Sources         Receivers         Receiver Locations         Merged Feeds         Rebroadcast Servers         Users         Raw Feed Decoding         Web Server         Users         Administrators         Heb Site         Initial Settings         General	Name: Format: Location: Connection type: Network Address: Port: Passphrase:	✓ Enabled         Ping         Compressed VRS         Ompressed VRS         Network         ● Normal         ● Hide from web site         ● Merge only         ✓ Push receiver         127.0.0.1         20000 ♀	✓ ✓ X ✓	★ Wizard ▲ Test Connection	on
	Idle timeout: Access Control Default access: Allow these addresses:	Send keep-alive pack	ets  s) From address	To address	
				ОК	Cancel .:



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Ensure the PingUSB device is connected to a USB port, and run the Ping application. Select the appropriate Serial Port from the dropdown menu. Once selected, press "Start".

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Serial Port:	COM11 ~	Start	Stop	Clear Po	ort: 20000	Connect	)isconnect			
Туре	ICAO	Latitude	Longitude	Altitude	Heading	Hor. Velocity	Ver. Velocity	Callsign	Time since last contact	
ADB	846A5B	41.9847648	-87.7796608	1386.84	75.31	109.06	4.87	NCA159		1
ADB: 846	A5B 41.9818304	-87.7938560 1325	.880 73 101	3 NCA159 3						
ADB: 846	A5B 41.9826240 A5B 41.9828800 A5B 41.9832000	-87.7889984 1341	.120 73 103 .120 73 103	5 NCA159 1						
ADB: 846	A5B 41.9832500 A5B 41.9834752	-87.7861952 1356	.360 74 105	5 NCA159 1						
ADB: 846	A5B 41.9840256	-87.7834496 1371	.600 74 107	5 NCA159 1						
ADB: 846	A5B 41.9844864	-87.7810688 1379	220 74 109	5 NCA159 0						
ADB: 846	A5B 41.9847648	-87.7796608 1386	.840 75 109	4 NCA159   1						
L										×

#### Notes:

- If the port number is unknown, you can verify the correct port using Windows Device Manager. Ping USB will appear as a "USB Serial Port" under "Ports (COM & LPT)".
- Once operational, ADS-B compliant aircraft within range will appear in the table.



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To start streaming data from Ping USB to Virtual Radar Server, press "Connect" in the Ping application. If the connection to Virtual Radar Server is successful, the "Connect" button will be disabled and the "Disconnect" button will be enabled.

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Serial Port:	COM1	1 ~	Start	Stop	Clear Po	ort: 20000	Connect	Disconnect		
Туре		ICAO	Latitude	Longitude	Altitude	Heading	Hor. Velocity	Ver. Velocity	Callsign	Time sino last conta
ADB	}	846A5B	41.9847648	-87.7796608	1386.84	75.31	109.06	4.87	NCA159	
_										
ADB: 84 ADB: 84	6A5B	41.9818304 - 41.9826240 -	87.7938560 1325 87.7902208 1341	.880 73 101 .120 73 103	3 NCA159 3 4 NCA159 1					
	IEASRÍ	41.9828800	87.7889984 1341	120 73 103	SİNCA159 İ 1İ					

Open the Virtual Radar Server map view in your browser by clicking on the link in the Virtual Radar Server application.

10015	нер					
leb server sta	atus					
he web serve	r is online					Take Offline
PnP support	has not beer	n enabled				Put onto Internet
P Address	User	Last Request	Bytes Sent	LastURL		
how local adv	droce	▼ De	fault Version	▼ Offline rr	node	
ttp://127.0.0.	1/VirtualRad	lar				
		<u> </u>				



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ADS-B broadcasting aircraft in range will now appear on the map. Range will vary depending on a number of factors. For the best reception, PingUSB should be placed in a location offering the least obstructed view of the horizon.

For more information on Virtual Radar Server visit: <u>http://www.virtualradarserver.co.uk/</u>

For pingUSB support visit: <u>http://www.uavionix.com/support/</u>



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