

uAvionix ADSB Receiver User Guide

UgCS 3.2.113



ADSB

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1 Connecting uAvionix Ping ADSB receiver to UgCS

UgCS supports uAvionix PingUSB ADSB Receiver (<https://uavionix.com/products/pingusb/>).

To enable PingUSB support "uAvionix Receiver" component must be selected during UgCS installation.

1.1 Communication channel configuration

Default installation is configured to detect Ping device automatically on any available serial port at 57600 baud. You can change this behavior by editing [Configuration file](#).

See [Serial port configuration](#) below for details.

1.2 Configuration file

Default configuration file of the uAvionix VSM suits most needs and it is generally not necessary to modify it.

Configuration file location:

- **On Microsoft Windows:**

```
C:\Program Files (x86)\UgCS\bin\vsm-uavionix.conf
```

- **On GNU/Linux:**

```
/etc/opt/ugcs/vsm-uavionix.conf
```

- **On Apple OS X:**

```
/Users/[user name]/Library/Application Support/UGCS/configuration/vsm-uavionix.conf
```

1.2.1 Serial port configuration

VSM which communicates with devices via serial ports should define at least one serial port, otherwise VSM will not try to connect to the vehicles. Port name and baud rate should be both defined.

1.2.1.1 Port name

Required.

- **Name:** connection.serial.[index].name = [regular expression]
- **Description:** Ports which should be used to connect to the vehicles by given VSM. Port names are defined by a [regular expression] which can be used to define just a single port or create a port filtering regular expression. Expression is case insensitive on Windows. [index] is a arbitrary port indexing name.
- **Example:** connection.serial.1.name = /dev/ttyUSB[0-9]+|com[0-9]+
- **Example:** connection.serial.2.name = com42

1.2.1.2 Port baud rate

Required.

- **Name:** connection.serial.[index].baud.[baud index] = [baud]
- **Description:** Baud rate for port opening. [baud index] is an optional arbitrary name used when it is necessary to open the same serial port using multiple baud rates. [index] is an arbitrary port indexing name.
- **Example:** connection.serial.1.baud.1 = 9600
- **Example:** connection.serial.1.baud.2 = 57600
- **Example:** connection.serial.2.baud = 38400

1.2.1.3 Excluded port name

Optional.

- **Name:** connection.serial.exclude.[exclude index] = [regular expression]
- **Description:** Ports which should not be used for vehicle access by this VSM. Port names are defined by a [regular expression] which can be used to define just a single port or create a port filtering regular expression. Filter is case insensitive on Windows. [exclude index] is an arbitrary indexing name used when more than one exclude names are defined.
- **Example:** connection.serial.exclude.1 = /dev/ttyS.*
- **Example:** connection.serial.exclude = com1

1.2.1.4 Serial port arbiter

Optional.

- **Name:** connection.serial.use_arbiter = [yes|no]
- **Description:** Enable (yes) or disable (no) serial port access arbitration between VSMs running on the same machine. It is recommended to have it enabled to avoid situation when multiple VSMs try to open the same port simultaneously.
- **Default:** yes
- **Example:** connection.serial.use_arbiter = no

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