

# HULC-M Quick Start Guide

Dear Customer,

thank you for purchasing the HULC-M ADS-B smart antenna. The following information will provide an overview for setting up HULC-M and support you to get HULC-M smoothly running with existing ADS-B software

## Hardware Setup:

HULC-M is ready to use out of the box. Please install HULC-M in an exposed position with a 360-degree unobstructed view for best reception. Please only use the lower part of HULC-M for mounting.



Installation Example

The USB cable can be extended with a standard USB extension cable of up to 5 meters length. If you require more than 5 meters please use an USB active repeater cable.

Plug the far end of the USB cable into your receiver device (Laptop, Raspberry Pi etc.)

## Software Setup:

HULC-M is compatible with almost every ADS-B software available.

To configure your favorite software or ADS-B feeder client please use the following parameters:

Parameter	Value
Port	USB or assigned COM Port
Baudrate	921.600
Data bits	8
Stop bits	1
Parity	None
Handshake	Hardware
Data format	HULC / Beast binary

Some examples of supported popular software are listed below:

Software	OS
<a href="#">Virtual Radar Server</a>	Windows
<a href="#">Readsb</a>	Linux
<a href="#">adsbSCOPE</a>	Windows
<a href="#">FlightRadar 24</a>	Linux
<a href="#">Radarbox 24</a>	Linux
<a href="#">Planefinder</a>	Various
<a href="#">Flightaware</a>	Linux

GNS has prepared a plug & play readsb image for Raspberry Pi. To install the SW please do the following:

1. Write a current, 'fresh' Pi OS (lite) Image onto SD card
2. Boot RasPi and update and configure fresh Pi OS(!!!).
3. Open console or SSH:
4. Type: `wget http://dl.gns-gmbh.com/readsb-rpi.deb`
5. Plug in HULC-M (!)
6. Type: `sudo apt install ./readsb-rpi.deb`
7. Enter RasPi IP-Address in browser => map and interface of readsb show up.

If you need further assistance, please create a support ticket on [www.gns-electronics.com](http://www.gns-electronics.com)