

INTRODUCTION

The GNS5892R ADS-B receiver is a further development of the well-known GNS5892 and has been equipped with an additional operating mode that allows an RSSI indicator to be added to each received ADS-B frame.

To distinguish frames with RSSI from frames without RSSI, the recognition character (first byte of each frame) has been changed from '*' to '#'.

Example:

ADS-B frames without RSSI Indication:

*8D4B1621994420C18804887668F9;

*02E1991058EF31;

*20000CB10D89FB;

*20001196553C25;

*02E198BF8676;

ADS-B frames with RSSI Indication:

#1B5D3DDDD1707EA1;

#1AA800023AC4600030A80000FB50EB;

#1A80E1969158B51233C9445A63D2C7;

#1CA00002340008D70AFFC800EB0AEC;

#1BA00002340008D70AFFC800EB0AEC;

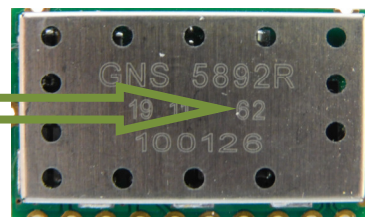
TECHNICAL BACKGROUND

It turned out that the choice of the recognition byte '#' is not optimal, because now the ADS-B frames with RSSI Indicator cannot easily be distinguished from the normal command - reply frames of the receiver.

Therefore the recognition byte for the extended ADS-B frames has been changed from '*' to '+'.

SCOPE OF THE IMPACT

- Time : Since 2019/03/12
- Impacted modules: GNS5892R with f/w V62 or higher.



Example:

Some ADS-B frames with RSSI Indicator after the introduction of this PCN:

+1B5D3DDDD1707EA1;

+1AA800023AC4600030A80000FB50EB;

+1A80E1969158B51233C9445A63D2C7;

+1CA00002340008D70AFFC800EB0AEC;

+1BA00002340008D70AFFC800EB0AEC;

COMPATIBILITY ISSUES

In order to avoid difficulties for our existing customers in case of protocol changes, modules with the previous firmware can still be ordered on request.

TIME SCHEDULE

The new firmware V62 is used since March 12th, 2019.

FURTHER INFORMATION

For further information about the protocol of the GNS5892R please refer to **GNS5892R_ADSBModul_datasheet_V09.pdf**

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