

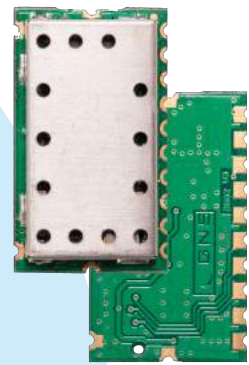
Product Summary

GNS5892R

Cost effective high sensitivity ADS-B receiver module

High performance small ADS-B module for versatile avionic applications

- ▶ Ultra low power consumption
- ▶ Cost efficient
- ▶ No doughnut effect
- ▶ Selectable filter Mode-S / ADS-B / CRC-OK



26.0 x 15.0 x 3.3 mm

GNS5892R

| Operation Mode | |
|----------------|---|
| Mode-S | • |
| ADS-B | • |

| Interfaces | |
|------------|---|
| UART | 1 |

| Power Supply | |
|----------------|-------|
| Supply Voltage | 3.3 V |
| I/O Voltage | 3.3 V |

PRODUCT DESCRIPTION

The GNS5892R ADS-B receiver module is the solution of choice for a multitude of avionic applications. The module is successfully implemented in numerous avionic use cases like In Flight Entertainment (IFE) systems, smart unit load devices (ULD) or mobile pilot information systems.

A power consumption of only 40mA makes the GNS5892R module the ideal solution for power critical battery based systems.

The sophisticated RF and amplifier design of the GNS5892R prevents the so called doughnut effect known from other ADS-B receivers. It is possible to receive ADS-B data seamlessly from very close to far away aircraft with no blind spots in-between.



► FEATURES

| | |
|---------------|---|
| Receiver type | Tuned radio frequency receiver for 1090 MHz Mode-S / ADS-B |
| Sensitivity | -86 dBm |

► PACKAGE

| | |
|-----------|------------------------|
| L x W x H | (26.0 x 15.0 x 3.3) mm |
|-----------|------------------------|

► ENVIRONMENTAL DATA, QUALITY & RELIABILITY

| | |
|----------------------------|-------------------|
| Operating temperature | -20 °C to +70 °C |
| Storage temperature | -65 °C to +150 °C |
| RoHS compliant (lead-free) | |

► ELECTRICAL DATA

| | |
|---------------------------|----------------|
| Power supply (Vdd) | 3.2 V to 3.5 V |
| Digital I/O voltage level | Vdd |
| Power consumption | 40 mA |

► INTERFACES

| | |
|-------------------|--|
| Serial interfaces | UART (baudrate 921 kbit/s, optional HW handshake) |
| Protocols | ASCII (AVR-Format) |

► SUPPORT PRODUCTS

| | |
|----------------|-------------------------|
| Evaluation Kit | GNS5892R Evaluation Kit |
|----------------|-------------------------|