# RaceGrade

## Specification

Document Number		RG_SPEC-0002	
Title		Telemetry Radio Specifications	
Revision	Date	Prepared By	Change History
1.0	03/24/2009	Chris Brown	Initial release.

### Introduction

The latest in 900 MHz spread spectrum wireless radios, this model has the highest gain and more noise rejection than previous models. Yet it retains 100% backwards compatibility with our other 900 MHz radios. It has been built to survive hostile environments from vibration and water splashes with its built in o-ring seal. The enclosure is made with to be the smallest and lightest possible weighing in at only 202 grams.



#### **Specifications:**

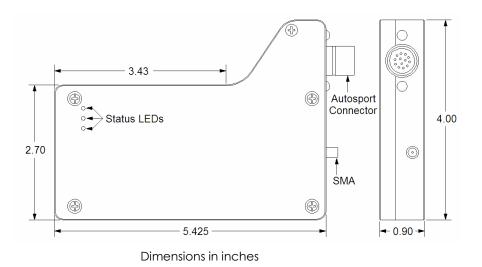
Frequency: Method: Output Power: Sensitivity: RF Connector: Error Detection: Link Speed: Data Interface:	902-928 MHz hopping spread spectrum up to 1 Watt (+30dBm) -110dBm SMA female 32bit CRC, auto retransmit baud rates up to 115.2 Kbps RS-232 serial
Hopping Bands:	7, user selectable

#### Power Requirements:

Supply Voltage:	6 to 30 VDC
Current Consumption:	~25 mA idle
(with 12v supply)	~90 mA receive
	~500 mA transmit

#### Environmental:

Temperature Range: Housing Material: Weight: -20° to 75° C 6061 Aluminum 202 grams



#### Connection:

Mating connector: AS 610-35SN pin 1 – CD (carrier detect) pin 2 – TX pin 3 – RX (receive from dash transmit) pin 4 – DTR pin 5 – Ground pin 6 – no connection pin 7 – RTS pin 8 – CTS (clear to send) pin 9 – Ground (tied internally to pin 5) pin 10 – no connection pin 11 – no connection pin 12 – setup mode interrupt pin 13 – 12 volt supply

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