



Document Number		USPEC-0002	
Title		Race Grade 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: 902-928 MHz
 Method: hopping spread spectrum
 Output Power: up to 1 Watt (+30dBm)
 Sensitivity: -110dBm
 RF Connector: SMA female
 Error Detection: 32bit CRC, auto retransmit
 Link Speed: baud rates up to 115.2 Kbps
 Data Interface: 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: -20° to 75° C
 Housing Material: 6061 Aluminum
 Weight: 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

