



Sequence of Events

Start State

- Ignition or Power Switch ON
- GPIO Power Good Bit High
- Turn ON Relay or FET with time constant
- Pi boots
- Energize Power Shutdown Bit - Pi now holds circuit ON
- Normal Operation - Pi running

Stop State

- Ignition or Power Switch OFF
- GPIO Power Good Low
- Pi Voices Shutdown On Radio
- Pi enters shutdown state + Wait
- Pi sets Shutdown Signal Low
- 10 second delay
- De-energize relay or FET
- System Powered Down

This circuit is intended for use with a Raspberry Pi and a low power radio portable node. It gracefully shuts the Pi down and removes power from all circuits. Both Pi and radio are run from a single 12V supply with individual high efficiency switching power supplies. The required software is part of the hamvoip RPi2/3 package. See the howto on the hamvoip.org web page.

See the auto shutdown howto at hamvoip.org for info on turning on the shutdown_monitor.sh script on the RPI which is required for this circuit to function

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