

Brief description of circuit functions for the
FCC ID: T5N6600
5-10-2006

The MC107 circuit board is designed to go into Fantastic vents Model 6600 RF exhaust fan.

- 1) The MC107 function is to control the fan speed through voltage and current. To do this a simple buck regulator was implemented.
 - 2) The MC107 is also responsible for controlling the Model 6600's automatic hood. This was implemented through a simple H-bridge.
 - 3) The last function is the communications from the MC417 remote. To implement this a Freescale transceiver MC13191 was implemented.
- Power supply: 12VDC
 - 16 MHz crystal reference oscillator
 - Operating Frequency: 2.405GHz
 - Antenna: Printed Circuit board strip Line (Internal) Ground referenced to Battery ground
 - Offset-Quadrature Phase Shift Keying (O-QPSK) data in 2.0 MHz channels with 5.0 MHz channel spacing.