

Re: one channel radio frequency help

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- *From:* Gary Tait <classicsat@xxxxxxxxx>
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"robot guy" <huntin4jesus@xxxxxxxxx> wrote in news:1175634612.259231.224850@p77g2000hsh.googlegroups.com:

Only problem is that the I don't know what was causing the device to only respond to a certain rate of speed from the flashing led. It was all pre manufactured into a little sugar cube sized box

You had, likely, a typical IR receiver module from a VCR or the like. The simply detect the presence of an IR signal oscillating at around 40 KHz, and activate (pull to ground) the output pin at the presence of the 40KHz IR signal. Your 555 was blinking the IR LED at the set frequency for that module. A typical IR remote would modulate that carrier by turning it on and off in the data pattern the remote creates.

RF remotes are similar, in that instead of a 40 Kz carrier on an IR LED, the data pattern is directly modulates the transmitter. In theory, you could do the the same, by gating an RF carrier, and detecting its presence, but that is less than ideal. You should encode it, and depending on the application, you should have a self error checking code.

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