AN1048
UPG2150T5L
Typical Application For The UPG2150T5L Switch

Explanation Of Typical Application For This Switch:

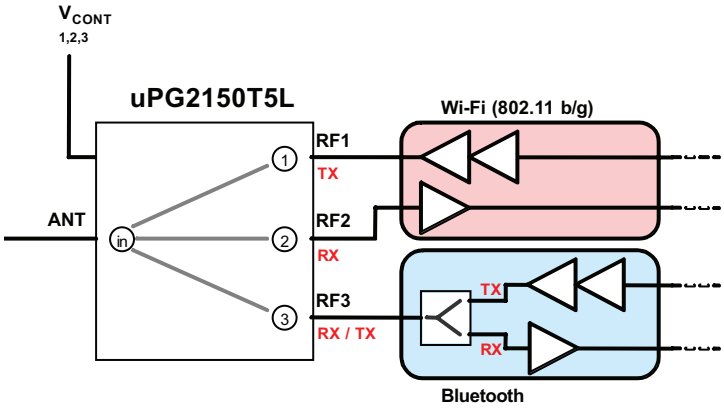
The UPG2150T5L SP3T switch has been designed specifically for devices that enable both Wi-Fi (802.11 b/g) and Bluetooth connectivity.

A typical application diagram would look like the one on the right (figure 1):

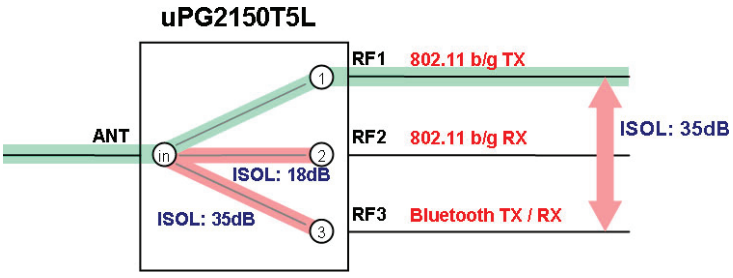
The first two outputs (RF1 and RF2) are used for the transmit and receive sides (respectively) of the Wi-Fi RF solution. And the third output handles the Bluetooth communications, with another T/R switch to combine the transmit and receive side.

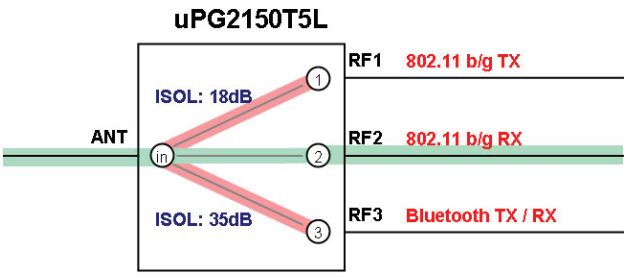
The performance of the switch has been specified with this kind of application in mind, with extra isolation (35dB) provided for the RF3 port in particular.

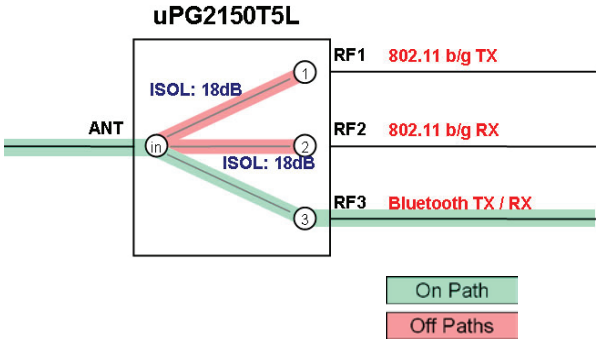
The three diagrams below summarize the different possible cases with the corresponding isolation values for each OFF path.



Typical Application Diagram







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