APPARATUS AND METHODS FOR MULTI-BAND RADIO FREQUENCY SIGNAL ROUTING

ABSTRACT OF THE DISCLOSURE

Apparatus and methods for multi-band RF signal routing are provided herein. In certain configurations, a mobile device includes an antenna switch module, a diversity module, and one or more diversity antennas. The diversity module is electrically coupled to the one or more diversity antennas, and processes diversity signals received on the one or more diversity antennas to generate a high band (HB) signal, a mid band (MB) signal, and a low band (LB) signal. Additionally, the diversity module generates a combined LB/HB signal based on combining the LB signal and the HB signal, and provides the MB signal and the combined LB/HB signal to the antenna switch module.

(Fig. 2)