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ABSTRACT

ANTENNA SWITCHING APPARATUS FOR A DUAL-MODE TRANSCEIVER

The present invention is directed to an antenna switching apparatus for a dual-mode transceiver which includes a transmission and reception antenna, a transmitting circuit, a receiving circuit and a separating filter of large insertion loss provided among the transmission and reception antenna, the transmitting circuit and the receiving circuit and which separates a transmission high frequency signal and a reception high frequency signal having different carrier frequencies, in which transmission and reception in the digital mode of the transmission and reception switching system and the transmission and reception in the analog mode of the simultaneous transmission and reception system can be made possible. This antenna switching apparatus is comprised of an analog-to-digital change-over switch which changes-over mutual connections among the transmission and reception antenna, the transmitting circuit, the receiving circuit and the separating filter in response to the analog or digital mode, a blocking filter of low insertion loss for blocking a high band of spurious caused by the switching of a transmission and reception change-over switch which changes-over the transmission and reception in the digital mode and a bandpass filter of low insertion loss for passing therethrough the reception high frequency signal in the digital mode, thereby a power consumption in the digital mode being reduced considerably.

