

BLOCK DIAGRAMS

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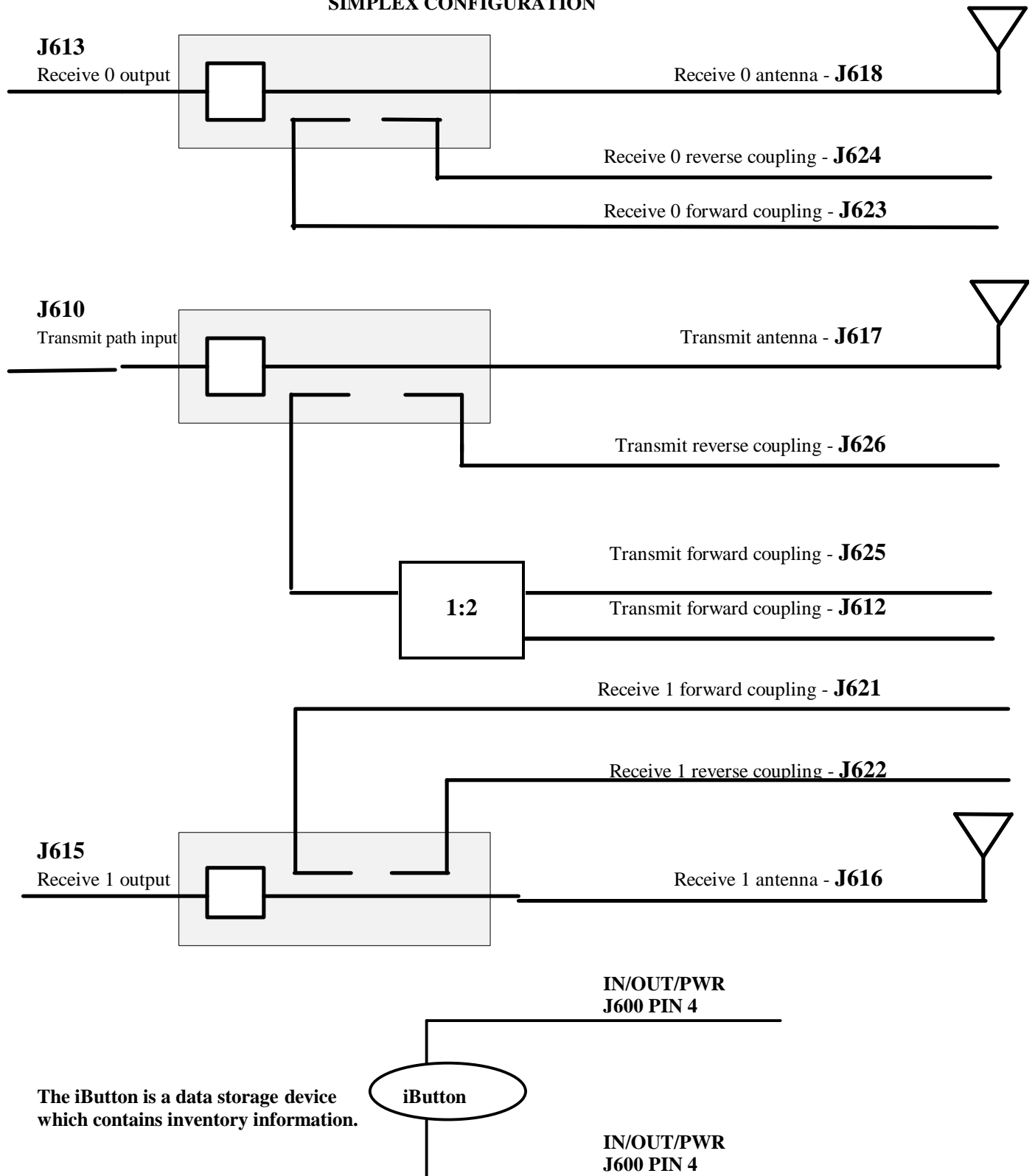
Section 2.1043 (b) (2)

Simplex Configuration – (New Variation – A Class II Permission Change)

A filter panel in a simplex configuration supports separate antennas for reception and for transmission as shown in the figure below. The physical separation of the antennas in simplex configurations provides isolation between the transmit and receive path. The isolation is at least 20 dB, therefore reducing the filtering required in the transmit path's receive band.

Each panel also supports diversity receive, so each panel has three independent paths- one transmit path and two identical receive paths. Additionally, each of the three antenna ports contain a 30.0dB/ 30.0 dB bidirectional coupler for diagnostics. The filters are passive, and are realized by tuned cavities.

SIMPLEX CONFIGURATION



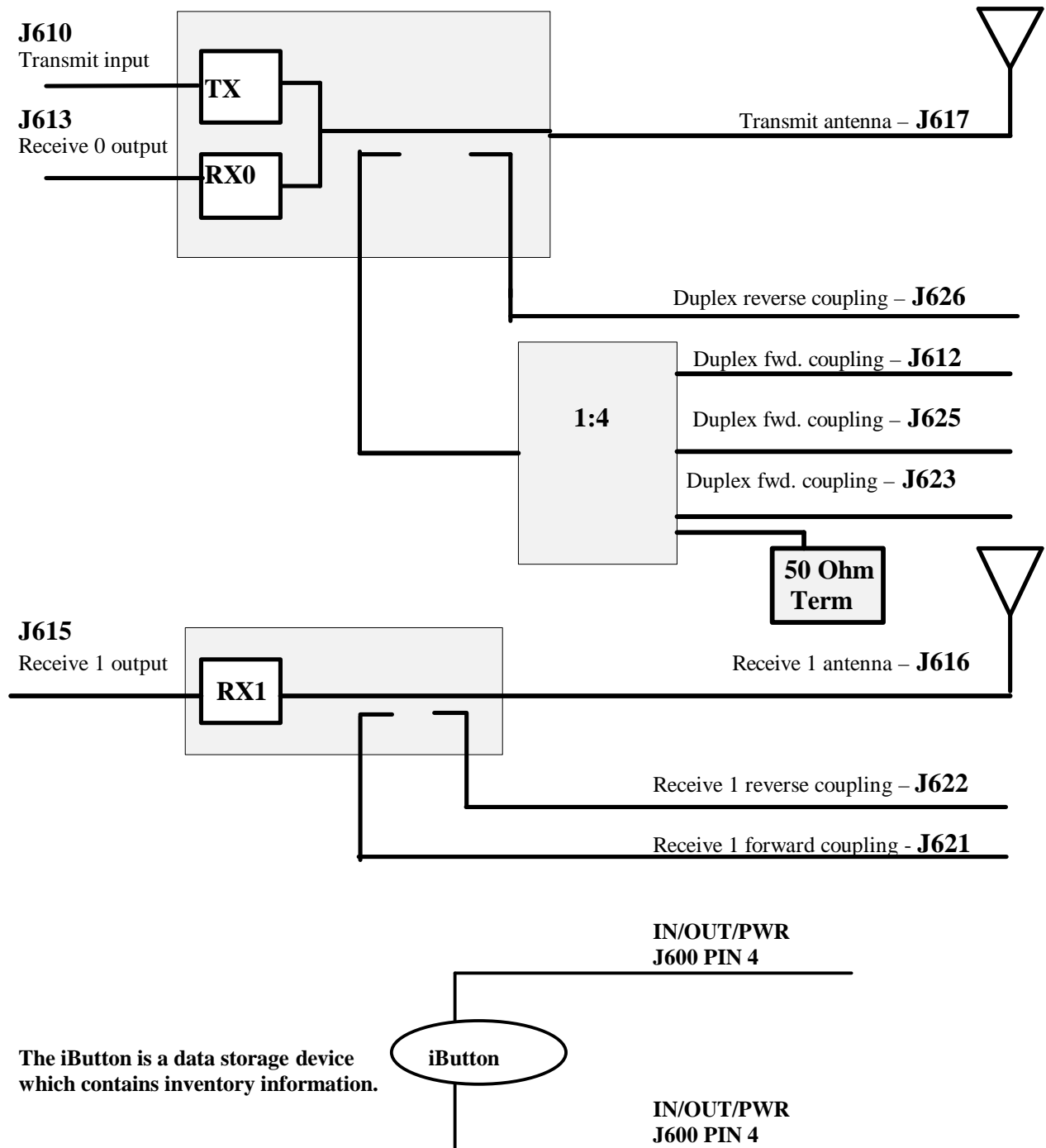
The iButton is a data storage device which contains inventory information.

Couplers are designed to operate within the passband frequencies. The coupler paths are 30 dB nominal, which includes the filter loss.

ORIGINALLY CERTIFIED CONFIGURATION

A filter panel in a duplex configuration supports a single antenna for both reception and transmission as shown in the figure below. Since there is no physical separation of the antennas in simplex configurations, the transmit path's receive band attenuation must be at least 20 dB greater than the simplex path. Each duplex panel also supports diversity receive, so each panel has two independent paths- one duplexed transmit/receive path and separate receive path. Additionally, each of the two antenna ports contain a 30.0dB/ 30.0 dB bidirectional coupler for diagnostics. The filters are passive, and are realized by tuned cavities.

DUPLEX CONFIGURATION



Couplers are designed to operate within the passband frequencies. The coupler paths are 30 dB nominal, which includes the filter loss