

Source: Texas Instruments

Title: Text proposal: STTD encoding for DTX(Revised)

-----Begin changes to section 5.3.1.1.1-----

5.3.1.1.1 Space time block coding based transmit antenna diversity (STTD)

The open loop downlink transmit diversity employs a space time block coding based transmit diversity (STTD). The STTD encoding is used optionally at the base station. Its use at the mobile is mandatory. A block diagram of the transmitter and a generic STTD encoder are shown in the ~~Figure 1~~ ~~Figure 10~~ and ~~Figure 2~~ ~~Figure 11~~ below. Channel coding, rate matching and interleaving is done as in the non-diversity mode.

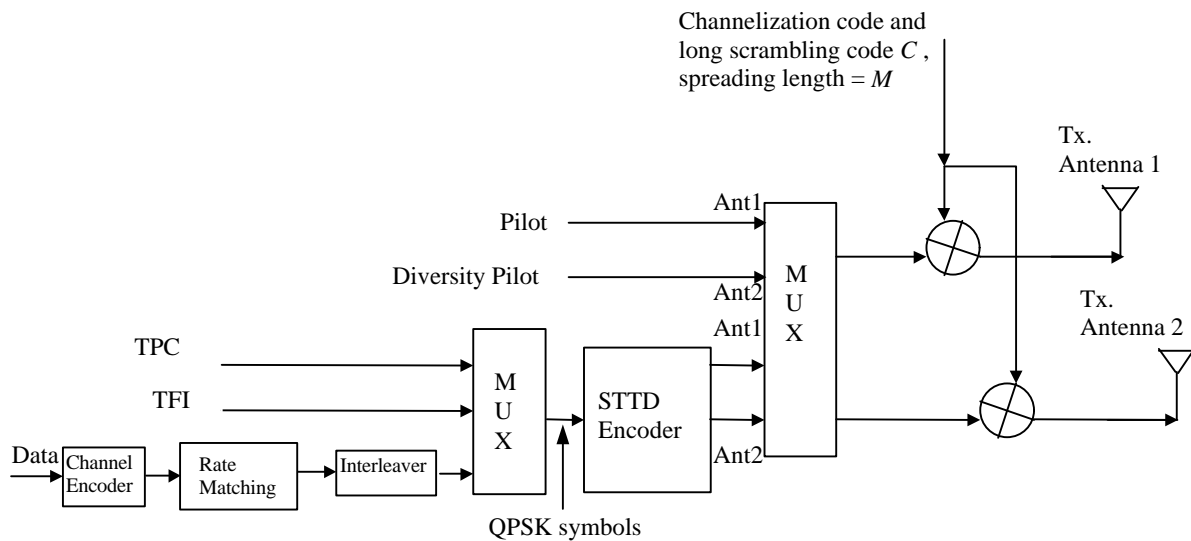


Figure 140: Block diagram of the transmitter (STTD).

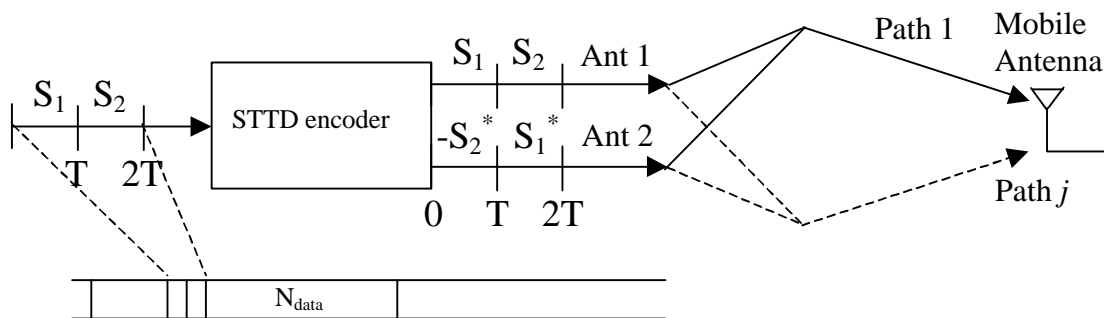


Figure 244: Block diagram of STTD encoder. The symbols  $S_1$ ,  $S_2$  are QPSK or discontinuous transmission (DTX) symbols and  $T$  denotes the symbol time.

-----End changes to section 5.3.1.1.1-----