RS232-T500

Trojan Description

- Trojan trigger is a 32-bit counter inserted in the transmitter part of micro-UART core. The counter is increased by 1 with every clock cycle, and the Trojan becomes activated when the counter reaches 32'hFFFFFFFF. After Trojan activation, xmit_doneH output signal is stuck at '0'.

Trojan Taxonomy

- Insertion phase: Design
- Abstraction level: Register-transfer level (RTL)
- Activation mechanism: Internally time-based triggered
- Effects: Denial of service
- Physical characteristics: Functional

Functional

The number of Transmitted/Received	Trojan activation	Payload Change	Simulation Length (No. Clock)	Length of each Transmission/Receive
949 152/1 112 583	0	0	168 000 000	176/150