RS232-T300

Trojan Description

Trojan trigger is a 32-bit counter inserted in the transmitter part of micro-UART core. The counter is increased by 1 after each transmission and the Trojan becomes activated when the counter reaches 32'hFFFFFFF. After Trojan activation, Trojan payload replaces the 7th bit of all data being transmitted afterward.

Trojan Taxonomy

Insertion phase: Design

Abstraction level: Register-transfer level (RTL)

Activation mechanism: Internally time-based triggered

Effect: Information leakage

Physical characteristic: Functional

Functional

The number of Transmitted	Trojan activation	Payload Change	Simulation Length (No. Clock)	Length of each Transmission
954 545	0	0	168 000 000	176

