

RS232-T700

🔑 Trojan Description

- 🔑 Trojan trigger is a state machine inserted in the transmitter part of micro-UART core. The state machine seeks the sequence of 8'hAA, 8'h00, 8'h55, and 8'hFF. 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 conditionally 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