IP Data Sheet

3.3V CAN Transceiver

The TS_CAN_3V3_X8 is a 3.3V CAN transceiver, which supports data rates up to 1Mbps and is compatible with ISO 11898-2 compliant CAN transceivers. It supports a standby mode with wake-up via wake-up pattern. The TS_CAN_3V3_X8 provides a symmetrical output signal on CANL/CANH and incorporates slope-control to improve EMI performance. Power is supplied at 3.3 V, and the IP includes reference and biasing circuits. The output stage can handle an absolute maximum voltage range of +/-58 V.

Technology: X-FAB XT018-0.18µm BCD-on-SOI CMOS

OPERATING CONDITIONS

Parameters	Values
Junction temperature range	-40°C to 150°C
Supply voltage	3.2V to 3.4V
CAN bus common mode voltage range (functional state)	-15V to 15V

Table 1: 3V3 CAN TRX Operating Conditions

SPECIFICATION

Parameters	Values
Dominant supply current in normal mode	56mA max
Recessive supply current in normal mode	5.5mA max
Supply current in standby mode	4µA max
CANH/CANL recessive output voltage in normal mode	1.8V typical
Dominant differential output voltage in normal mode, (CANH-CANL)	1.9V typical
Recessive differential output voltage in normal mode, (CANH-CANL)	10mV max
Maximum output data rate	1Mbaud
Driver symmetry	0.9V/V to 1.1V/V

Table 2: 3V3 CAN TRX Specifications

Sales & Marketing Contact

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LAYOUT VIEW

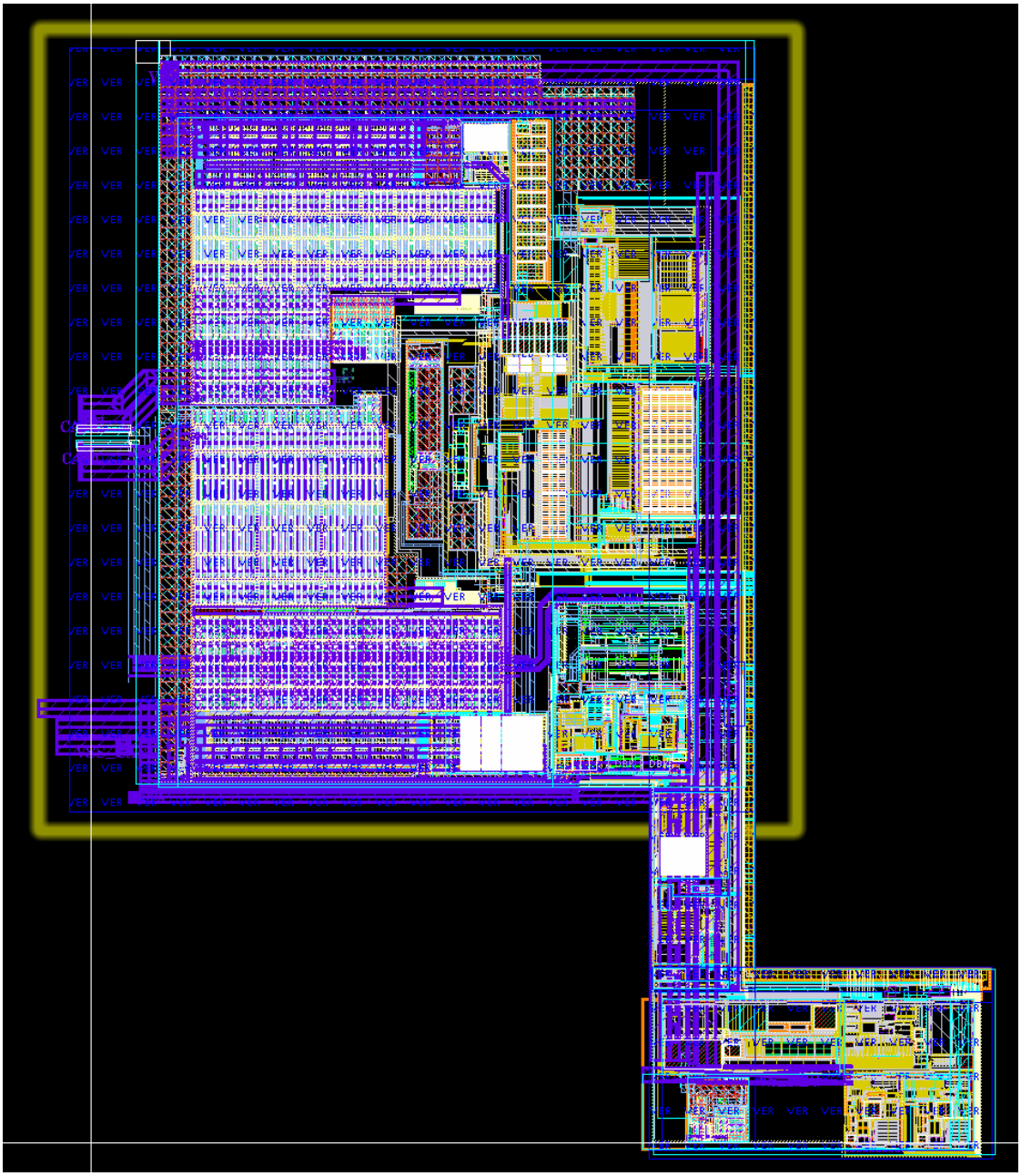

Fig. 1: 3V3 CAN TRX Layout View