



# 8-Bit Dual-Supply Translating Transceiver (Open-Drain, Auto-Direction Sensing)

## NTS0308E

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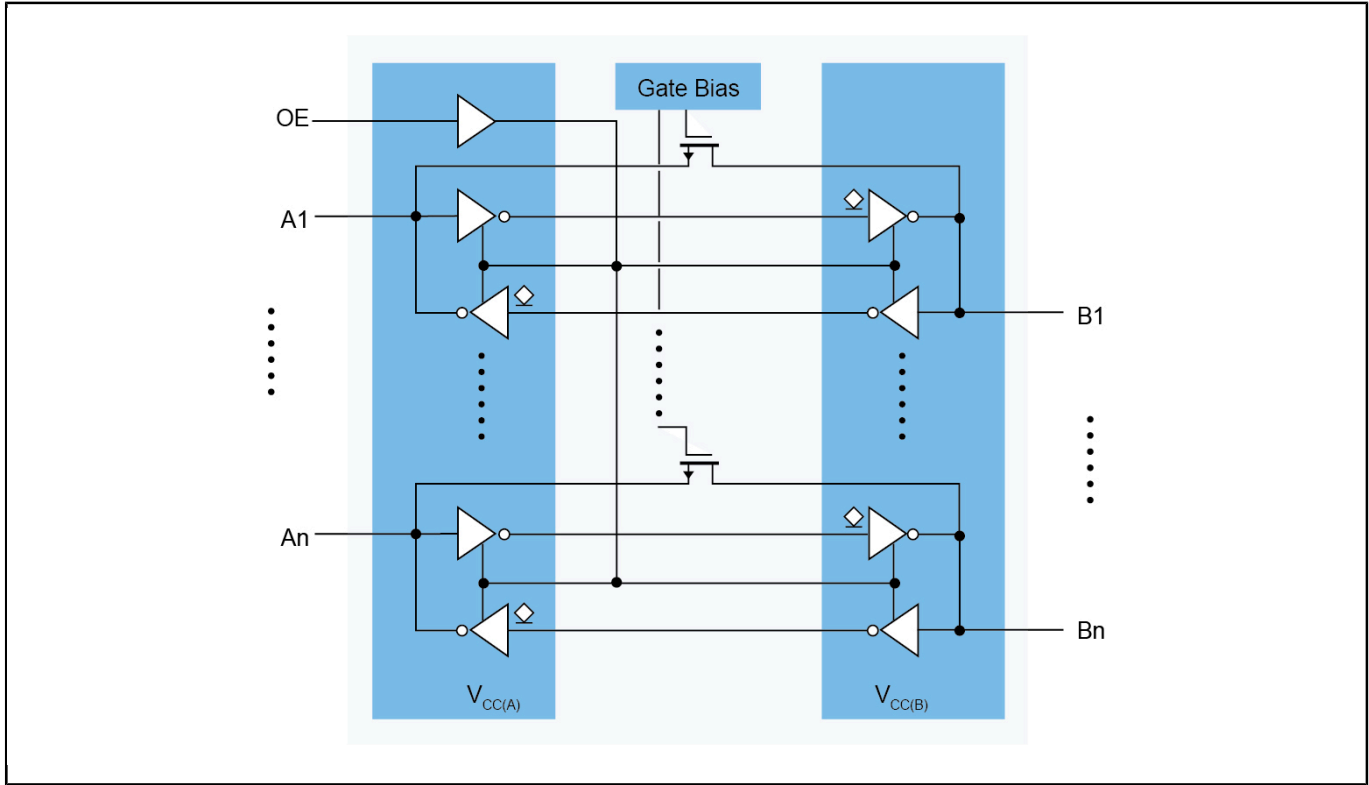
The NTS0308E is an 8-bit, dual supply translating transceiver family with auto direction sensing that enables bidirectional voltage level translation.

It features eight 1-bit input-output ports (A and B), one output enable input (OE) and two supply pins (VCC(A) and VCC(B)).

- VCC(A) can be supplied at any voltage between 0.95 V and 3.6 V.
- VCC(B) can be supplied at any voltage between 1.65 V and 5.5 V.
- This flexibility makes the device suitable for translating between any of the voltage nodes (0.95 V, 1.2 V, 1.8 V, 2.5 V, 3.3 V and 5.0 V). VCC(A) must be  $\leq$  VCC(B) to ensure proper operation.

Pins A and OE are referenced to VCC(A) and pin B is referenced to VCC(B). A LOW level at pin OE causes the outputs to assume a high-impedance OFF-state.

## NTS0308E Block Diagram Block Diagram



View additional information for [8-Bit Dual-Supply Translating Transceiver \(Open-Drain, Auto-Direction Sensing\)](#).

**Note:** The information on this document is subject to change without notice.

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