



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

NTS0308E

Last Updated: Dec 23, 2025

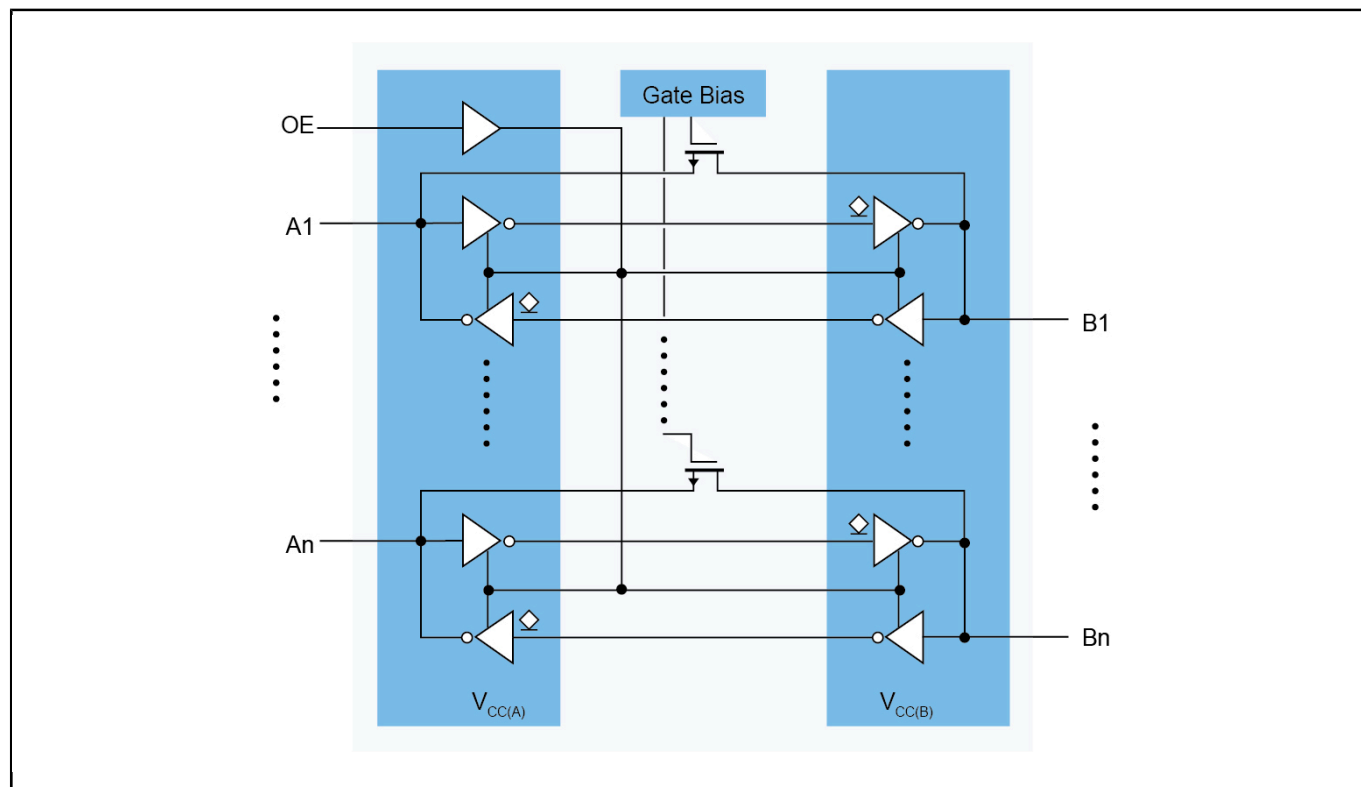
The NTS0308E is an 8-bit, dual supply translating transceiver family with auto direction sensing that enables bidirectional voltage level translation.

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.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2026 NXP B.V.