



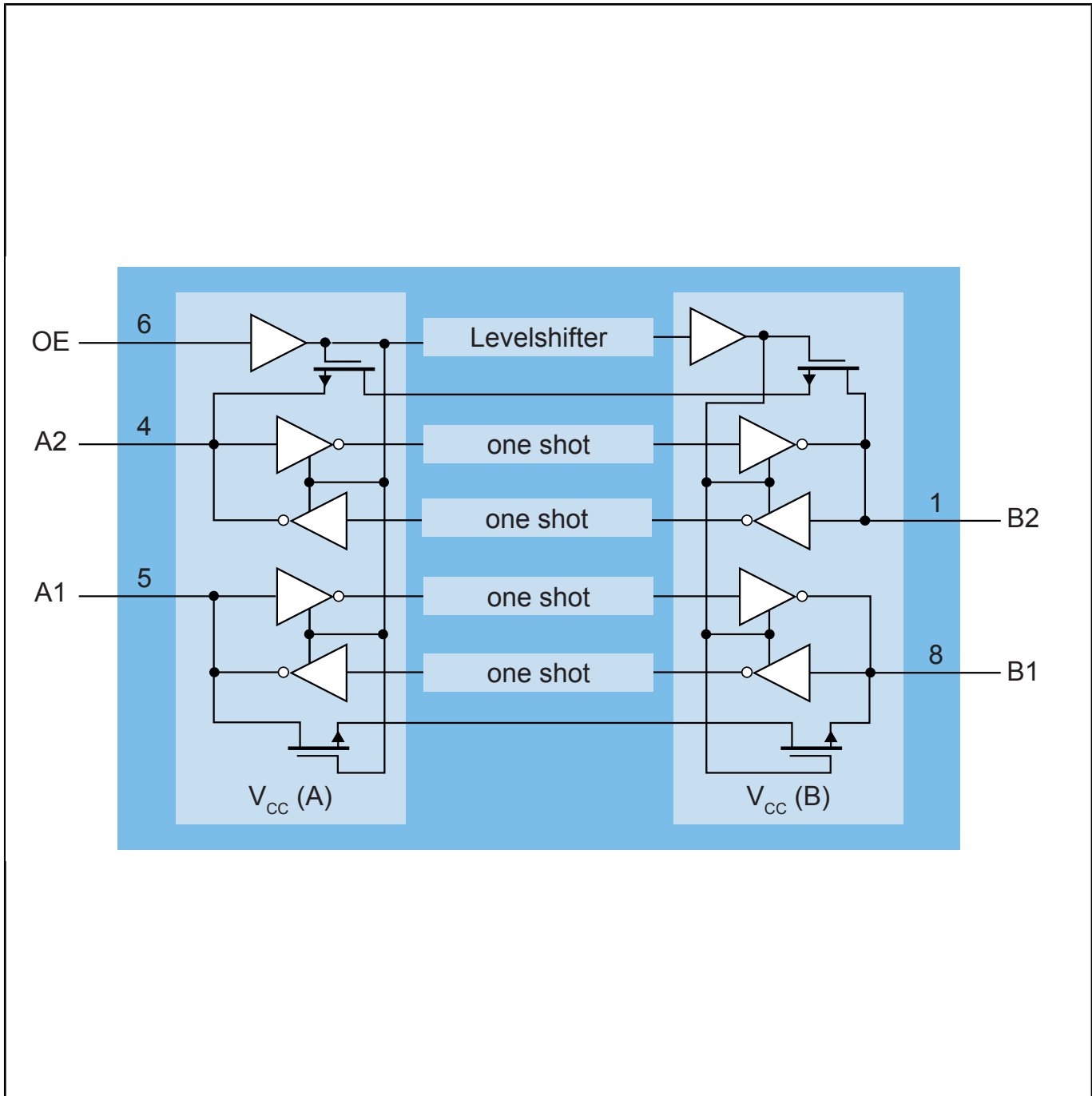
# Dual-Supply Translating Transceiver (Open-Drain, Auto-Direction Sensing)

## NTSX2102

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The NTSX2102 is a 2-bit, dual supply translating transceiver with auto direction sensing, that enables bidirectional voltage level translation. It features two 2-bit input-output ports (An and Bn), one output enable input (OE) and two supply pins (VCC(A) and VCC(B)). Both supplies 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 (1.8 V, 2.5 V, 3.3 V and 5.0 V). Pins An and OE are referenced to VCC(A) and pins Bn are referenced to VCC(B). A LOW level at pin OE causes the outputs to assume a high-impedance OFF-state. This device is fully specified for partial power-down applications using IOFF. The IOFF circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

# NTSX2102 Block Diagram Block Diagram



View additional information for [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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