



SIM Card Interface Level Translator with I²C-Bus Control and LDO

NVT4556

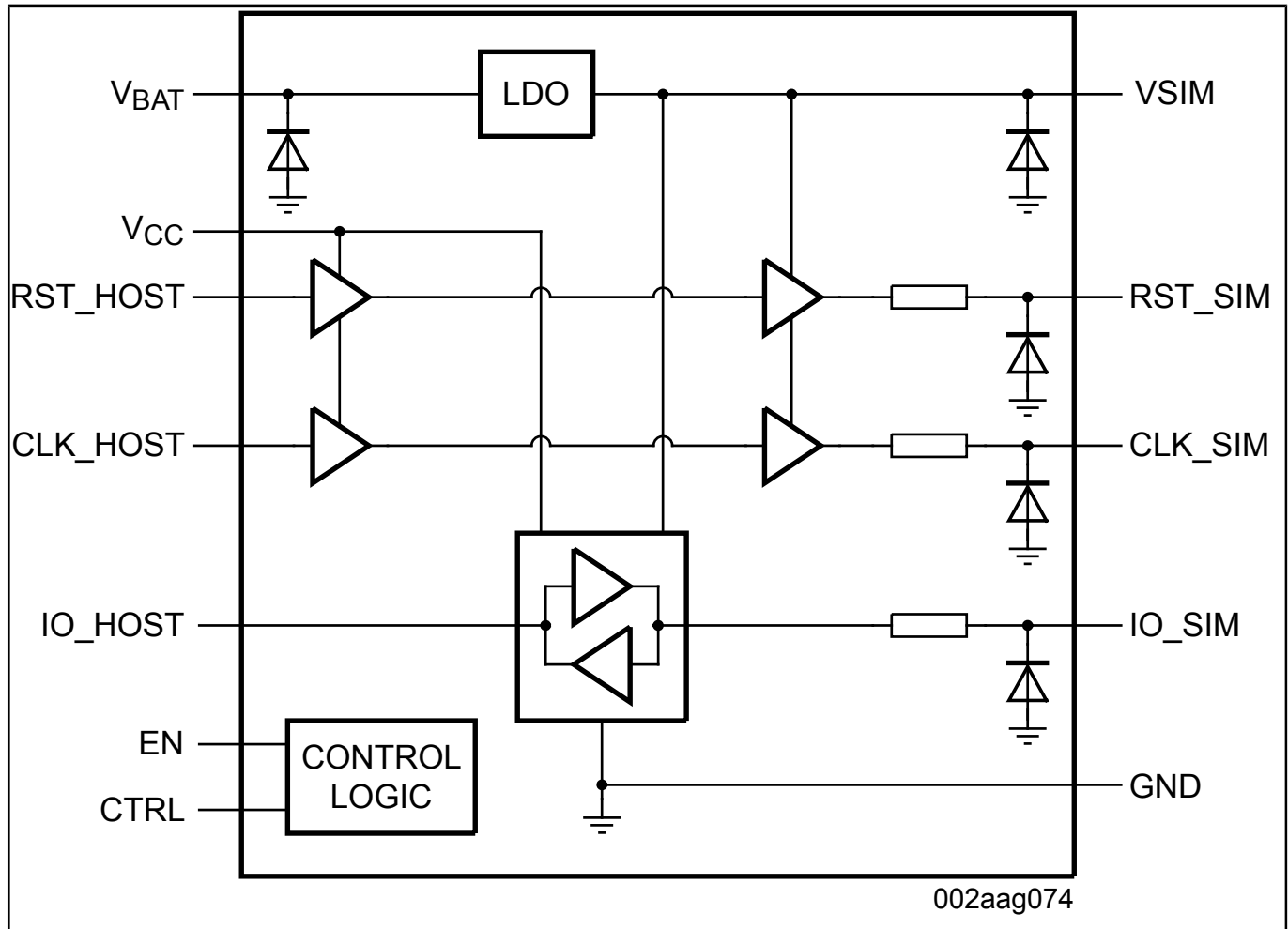
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The NVT4556 device is built for interfacing a SIM card with a single low-voltage host-side interface. The NVT4556 contains an LDO that can deliver two different voltages, 1.8 V or 3 V, from a typical mobile phone battery voltage, and three level translators to convert the data, RSTn and CLKn signals between a SIM card and a host microcontroller.

The NVT4556 VCC pin provides power to the host side I/Os and doubles as an enable pin, for this reason it can be connected to a GPIO that matches the host side voltage. The total current draw from the VCC pin is only 100 μ A maximum. The NVT4556 also uses the I²C-bus interface to enable normal operation and to select either 1.8 V or 3 V for the SIM card power supply. The NVT4556 can also disable the LDO functionality while maintaining the level translator paths so that the user can use a system-controlled regulator to power the SIM card power supply. The NVT4556 can enable users to provide second and third SIM card functionality with a low-voltage one host SIM port, at the same time reducing the number of GPIOs used in the system. The NVT4556 is compliant with all ETSI, IMT-2000 and ISO-7816 SIM/Smart card interface requirements.

The NVT4556 is available in a 12-pin WLCSP package and has three factory programmed follower address options.

NVT4555 Block Diagram Block Diagram



View additional information for [SIM Card Interface Level Translator with I²C-Bus Control and LDO](#).

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