

MAX200–MAX209/ MAX211/MAX213

+5V, RS-232 Transceivers with 0.1µF External Capacitors

General Description

MAX200-MAX209, MAX211, and MAX213 are a family of RS-232 and V.28 transceivers with integrated charge pump circuitry for single +5V supply operation.

The drivers maintain the ±5V EIA/TIA-232E output signal levels at data rates in excess of 120kbps when loaded in accordance with the EIA/TIA-232E specification.

The MAX211 and MAX213 are available in a 28-pin, wide small-outline (SO) package and a 28-pin shrink small-outline (SSOP) package, which occupies only 40% of the area of the SO. The MAX207 is available in a 24-pin SO package and a 24-pin SSOP. The MAX203 and MAX205 use no external components and are recommended for applications with limited circuit board space.

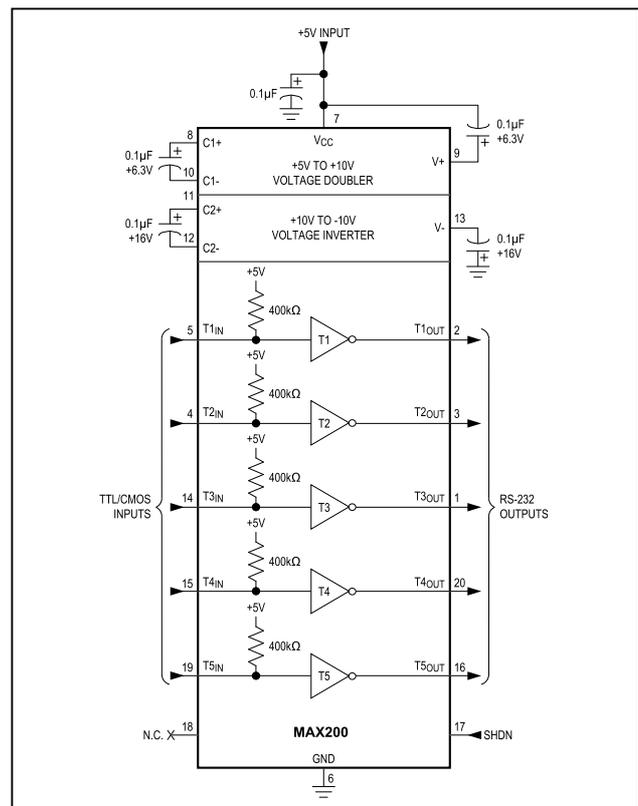
Benefits and Features

- Saves Board Space
 - Integrated Charge Pump Circuitry
 - Eliminates the Need for a Bipolar ±12V Supply
 - Enables Single Supply Operation From Either +5V or 9V to +12V
 - Integrated 0.1µF Capacitors (MAX203, MAX205)
 - 24 pin SSOP Package Saves Up to 40% Versus SO Package
- Saves Power for Longer Battery Operation
 - 5µW Shutdown Mode (MAX200, MAX205, MAX206, MAX211)
 - 75µW Ring Indicator Monitoring with Two Active Receivers (MAX213)

Applications

- Battery-Powered Equipment
- Handheld Equipment
- Portable Diagnostics Equipment

Typical Operating Circuit



Selector Guide

PART	POWER-SUPPLY VOLTAGE (V)	NUMBER OF RS-232 DRIVERS	NUMBER OF RS-232 RECEIVERS	NUMBER OF RECEIVERS ACTIVE IN SHUTDOWN	NUMBER OF EXTERNAL CAPACITORS (0.1µF)	LOW-POWER SHUTDOWN/TTL THREE-STATE
MAX200	+5	5	0	0	4	Yes/No
MAX201	+5 and +9.0 to +13.2	2	2	0	2	No/No
MAX202	+5	2	2	0	4	No/No
MAX203	+5	2	2	0	None	No/No

Selector Guide continued at end of data sheet.

