

Features

- Meets EIA/TIA-232F and CCITT V.28/V.24 specifications for V_{CC} at $+5V \pm 10\%$
- Low Quiescent Current – 3mA
- Low Shutdown Current (where applicable) $-1\mu A$ typical, $10\mu A$ max
- Guaranteed Standard Data Rate 250Kbps
- Proprietary Switch-Capacitor Regulated Voltage Converters (patent pending)
- Wake Up Feature in Shutdown Mode
- Tri-State Receiver Outputs

Product Brief

- Latch-up Free
- ESD Protection for RS-232 I/O's
 - $\pm 15kV$ Human Body Model (HBM)
- Drop-in Replacements for MAX207E, SP207E, MAX208E, SP208E, MAX211E, SP211E, MAX213E, SP213E, ADM213, HIN213, SP213A
- High Data Rate at 1000Kbps Available on ZT230F Series

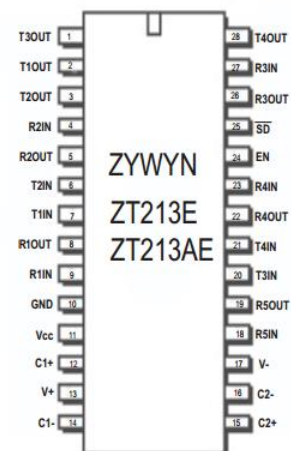
Product Description

The ZT230E series devices are +5V powered EIA/TIA-232 and V.28/V.24 communication interfaces with low power requirements. These transceivers consist of combinations up to five line drivers, five line receivers and the proprietary switch-capacitor regulated voltage converters.

The ZT211E and ZT213E/AE feature a low power shutdown mode which draws as little current as $1\mu A$ typical with receiver outputs tri-stated and in wake-up. These devices operate from a single +5V power supply at the guaranteed data rate of 250K bits/sec with enhanced electrostatic discharge (ESD) protection in all RS232 I/O pins exceeding $\pm 15kV$ HBM.

Target Applications

- Battery-Powered Applications
- Notebooks, Subnotebooks, and Palmtops
- Industrial and Embedded PCs
- Data Cables for Cell Phones and PDAs
- Terminal Adapters and POS terminals
- Peripherals interface
- Routers and HUBs



28-pin SSOP/WSOIC

Product Selection Guide

Part Number	# of RS232 Tx	# of RS232 Rx	# of Rx active in SD	# of 0.1 μF caps	Shut Down	Wake Up	TTL Tri-State	Data Rate (kbps)	ESD HBM on RS232 I/O	Pin-to-Pin Cross EXAR	Pin-to-Pin Cross MAXIM
ZT207E	5	3	0	4	No	No	No	250	$\pm 15kV$	SP207E	MAX207E
ZT208E	4	4	0	4	No	No	No	250	$\pm 15kV$	SP208E	MAX208E
ZT211E	4	5	0	4	Yes	No	Yes	250	$\pm 15kV$	SP211E	MAX211E
ZT213E	4	5	2	4	Yes	Yes	Yes	250	$\pm 15kV$	SP213E	MAX213E
ZT213AE	4	5	2	4	Yes	Yes	Yes	250	$\pm 15kV$	SP213A	MAX213