



ZT202F, ZT232F
ZT310F, ZT312F

Low Power 5V 1,000kbps RS232 Transceivers



Features

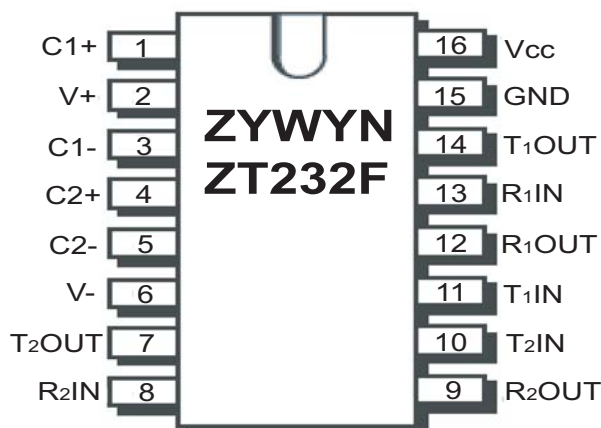
- Meets EIA/TIA-232F and CCITT V.28/V.24 specifications for V_{CC} at $+5V \pm 10\%$
- Low Quiescent Current – 3mA typ., 5mA max.
- Low Shutdown Current (where applicable) - 1 μ A typical, 5 μ A max.
- Guaranteed High Data Rate 1,000kbps
- Proprietary Switch-Capacitor Regulated Voltage Converters (patent pending)
- Use Small 0.1 μ F Capacitors
- Wake Up Feature (where applicable) in Shutdown Mode
- Tri-State Receiver Outputs
- Latch-up Free
- ESD Protection for RS-232 I/O's
 ± 15 kV Human Body Model (HBM)
- Standard Data Rate at 250kbps Available on ZT232E Series

General Description

The ZT232F series devices are +5V powered EIA/TIA-232 and CCITT V.28/V.24 communication interfaces with low power requirements. These transceivers consist of two line drivers, two line receivers and the proprietary switch-capacitor regulated voltage converters. The ZT310F and ZT312F feature a low power shutdown mode which draws as little current as 1 μ A typical with receiver outputs tri-stated and in wake-up. These devices operate from a single +5V power supply at the guaranteed high data rate of 1,000k bits/sec with enhanced electrostatic discharge (ESD) protection in all RS232 I/O pins exceeding ± 15 kV HBM.

Applications

- Single Power Supply Applications
- Industrial and Embedded PCs
- Set Top Boxes
- Terminal Adapters
- POS terminals
- Peripherals Interface
- Routers and HUBs



16-pin PDIP/nSOIC/wSOIC/TSSOP

Now Available in Green Package Option

Product Selection Guide And Cross Reference

Part Number	# of RS232 Tx	# of RS232 Rx	# of Rx active in SD	# of 0.1 μ F caps	Shut Down	Wake Up	TTL Tri-State	Data Rate (kbps)	ESD HBM on RS232 I/O	Pin-to-Pin Cross SIPEX	Pin-to-Pin Cross MAXIM
ZT202F	2	2	0	4	No	No	No	1000	± 15 kV	N/A	N/A
ZT232F	2	2	0	4	No	No	No	1000	± 15 kV	N/A	N/A
ZT310F	2	2	0	4	Yes	No	Yes	1000	± 15 kV	N/A	N/A
ZT312F	2	2	2	4	Yes	Yes	Yes	1000	± 15 kV	N/A	N/A



Specifications subject to change without notice