

+5V Powered Dual RS-232 Transmitter/Receiver

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Features

- Meets All RS-232C Specifications
- Requires Only Single +5V Power Supply
- Onboard Voltage Doubler/Inverter
- Low Power Consumption
- 2 Drivers
 - $\pm 9V$ Output Swing for +5V Input
 - 300Ω Power-off Source Impedance
 - Output Current Limiting
 - TTL/CMOS Compatible
 - $30V/\mu s$ Maximum Slew Rate
- 2 Receivers
 - $\pm 30V$ Input Voltage Range
 - $3k\Omega$ to $7k\Omega$ Input Impedance
 - 0.5V Hysteresis to Improve Noise Rejection
- All Critical Parameters are Guaranteed Over the Entire Commercial, Industrial and Military Temperature Ranges

Applications

- Any System Requiring RS-232 Communications Port
 - Computer - Portable and Mainframe
 - Peripheral - Printers and Terminals
 - Portable Instrumentation
 - Modems
 - Dataloggers

Description

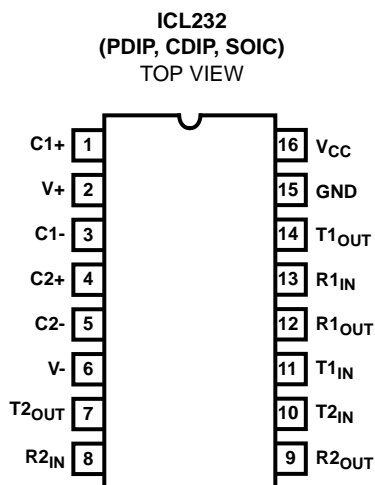
The ICL232 is a dual RS-232 transmitter/receiver interface circuit that meets all EIA RS-232C specifications. It requires a single +5V power supply, and features two onboard charge pump voltage converters which generate +10V and -10V supplies from the 5V supply.

The drivers feature true TTL/CMOS input compatibility, slew-rate-limited output, and 300Ω power-off source impedance. The receivers can handle up to +30V, and have a $3k\Omega$ to $7k\Omega$ input impedance. The receivers also have hysteresis to improve noise rejection.

Ordering Information

PART NUMBER	TEMPERATURE RANGE	PACKAGE
ICL232CPE	0°C to +70°C	16 Lead Plastic DIP
ICL232CJE	0°C to +70°C	16 Lead Ceramic DIP
ICL232CBE	0°C to +70°C	16 Lead SOIC (W)
ICL232IPE	-40°C to +85°C	16 Lead Plastic DIP
ICL232IJE	-40°C to +85°C	16 Lead Ceramic DIP
ICL232IBE	-40°C to +85°C	16 Lead SOIC (W)
ICL232MJE	-55°C to +125°C	16 Lead Ceramic DIP

Pinouts



Functional Diagram

