

## +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
  - $300\Omega$  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

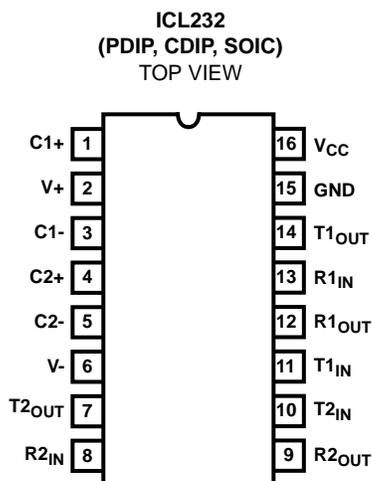
The ICL232 is a dual RS-232 transmitter/receiver interface circuit that meets all EIA RS-232C specifications. It requires a single +5V power supply, and features two onboard charge pump voltage converters which generate +10V and -10V supplies from the 5V supply.

The drivers feature true TTL/CMOS input compatibility, slew-rate-limited output, and  $300\Omega$  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

