



Product Brief

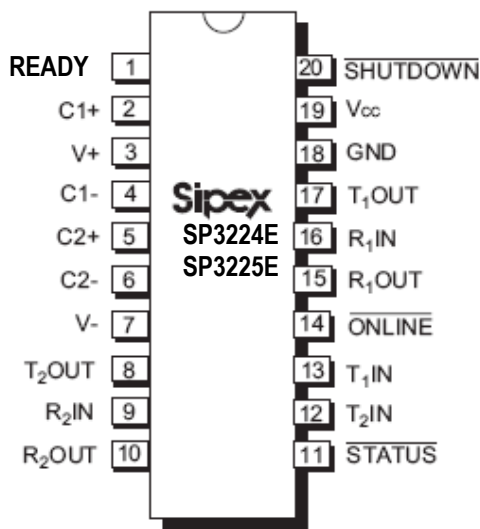
SP3225E 1Mbps 3.3V or 5V RS-232 Transceivers with Auto On-Line® Plus

Key Features

- 2-driver, 2-receiver RS-232 transceiver
- Pin compatible to earlier SP3223EU
- Enhanced power savings compared to SP3223EU type devices
- 1Mbps high-speed serial data rate
- Auto On-Line® Plus automatically puts device into 1µA shutdown mode if Tx Inputs and Rx Inputs are idle for 30 seconds
- Device re-awakes on bus activity
- No control inputs or software driver changes required
- Meets true EIA/TIA-232-F requirements from a +3.0V to +5.5V power supply
- Regulated Charge Pump for stable outputs regardless of V_{CC} variations
- Upgradeable from SP3224E to support higher speeds
- ESD Specifications:
 - ±15KV Human Body Model
 - ±8KV IEC1000-4-2 Contact Discharge

Value Proposition

The AUTO ON-LINE® PLUS feature allows the device to automatically "wake-up" during a shutdown state upon detecting activity and to enter a low power shutdown if idle. This power saving feature functions without system intervention or modifications to software or drivers.



Typical Applications

- 1Mbps power-saving RS232 transceiver:
- Ideal for telecom, instrumentation, POS and embedded applications
 - Diagnostic upload ports
 - High speed synch cables/cradles for handhelds
 - Use in conjunction with high speed UARTs or microcontrollers
 - Cross with MAX3225, ICL3225

1Mbps 3.3V or 5V RS-232 Transceivers with Auto On-Line® Plus

Selection Guide

Part Number	Temp.	Package	RoHS
SP3225ECA-L	0 to +70°C	20 pin SSOP	Y
SP3225ECY-L	0 to +70°C	20 pin TSSOP	Y
SP3225EEA-L	-40 to 85°C	20 pin SSOP	Y
SP3225EEY-L	-40 to 85°C	20 pin TSSOP	Y

Competitive Analysis

Vendor	Part Number	Cross-Type
Direct Equivalents		
Maxim	MAX3225	Drop-In
Intersil	ICL3225	Drop-In
Similar Devices (without Auto On-Line Plus)		
Sipex	SP3223EU	Pin-compatible
TI	SN65C3223	Pin-compatible

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[MaxLinear:](#)

[SP3225ECY-L](#) [SP3225EEY-L/TR](#) [SP3225ECA-L/TR](#) [SP3225EEA-L](#) [SP3225ECA-L](#) [SP3225EEA-L/TR](#)
[SP3225EEY-L](#) [SP3225ECY-L/TR](#)