



Product Brief

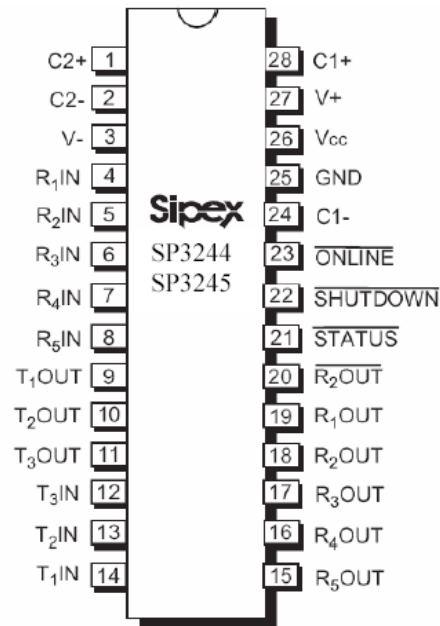
SP3245E 1Mbps 3.3V or 5V RS-232 Transceivers with Auto On-Line Plus®

Key Features

- 3-driver, 5-receiver RS-232 transceiver
- Pin compatible to earlier SP3243EU
- Faster speed upgrade for SP3244
- Enhanced power savings compared to SP3243EU type devices
- High speed 1Mbps serial data rate
- Auto Online Plus® automatically puts device into 1µA shutdown mode if 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
- Tiny QFN package available
- ESD Specifications:
 - ±15KV Human Body Model
 - ±15KV IEC1000-4-2 Air Discharge
 - ±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:
- Capable of speeds up to 1Mbaud
 - Ideal for telecom, instrumentation, POS and embedded applications
 - Full serial port DTE transceiver
 - Use in conjunction with high speed UARTs or microcontrollers
 - Cross with MAX3245, ICL3245

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

Selection Guide

Part Number	Temp.	Package	RoHS
SP3245ECA-L	0 to +70°C	28 pin SSOP	Y
SP3245ECY-L	0 to +70°C	28 pin TSSOP	Y
SP3245EEA-L	-40 to 85°C	28 pin SSOP	Y
SP3245EEY-L	-40 to 85°C	28 pin TSSOP	Y
SP3245EER1-L	-40 to 85°C	32 pin QFN	Y

Competitive Analysis

Vendor	Part Number	Cross-Type
Direct Equivalents		
Maxim	MAX3245	Drop-In
Intersil	ICL3245	Drop-In
Similar Devices (without Auto On-Line Plus®)		
Sipex	SP3243EU	Pin-compatible
TI	SN65C3243	Pin-compatible

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