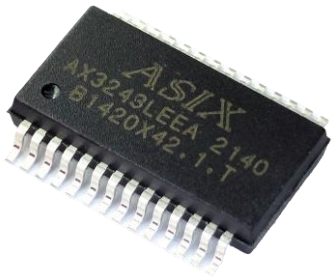
AX3243E
Product Brief

Release Date: 10/17/2022

Low Power 3V to 5.5V 3D/5R 250Kbps RS-232 Transceiver



The AX3243E family is a 3V to 5.5V powered, low power, RS-232 transceiver for EIA/TIA-232 and V.28/V.24 RS-232 communication interfaces. It consists of three RS-232 line drivers, five RS-232 line receivers and the proprietary switch-capacitor regulated voltage converters. AX3243E operates from a single 3V to 5.5V power supply at the guaranteed data rate of 250K bits/sec with enhanced electrostatic discharge (ESD) protection in all RS-232 I/O pins, exceeding ± 15KV IEC61000-4-2 Air Gap Discharge and ±8KV IEC61000-4-2 Contact Discharge.

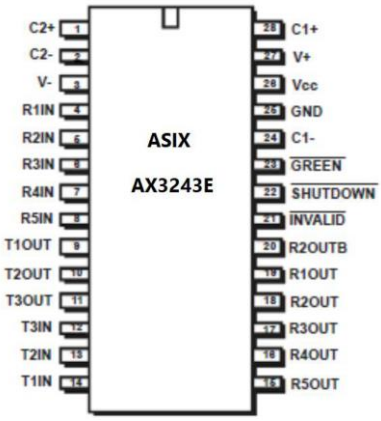
The AX3243E supports the proprietary AUTOGREEN power saving function which automatically powers down the on-chip regulated voltage converters and driver circuits when an RS-232 cable is disconnected from the host interface or when the connected peripheral device is turned off.

Key Features

- **Meets or Exceeds EIA/TIA-232F and CCITT V.28/V.24 Specifications for VCC at +3.3V ±10% and +5V ±10% Operations**
- **Interoperable with EIA/TIA-232 and adheres to EIA/TIA-562 down to a +2.7V power source**
- **Low Quiescent Current – 1.5mA typical, 3mA max.**
- **Low Shutdown Current (where applicable) - 1µA typical, 10µA max.**
- **Guaranteed Data Rate 250Kbps**
- **Latch-up Free**
- **Proprietary Switch-Capacitor Regulated Voltage Converters**
- **Proprietary AUTOGREEN Power Saving**
- **ESD Protection for RS-232 I/O Pins**
  ±15KV IEC61000-4-2 Air Gap Discharge
  ±8KV IEC61000-4-2 Contact Discharge
- **28-pin SSOP/TSSOP RoHS Compliant Package**
- **Operating Temperature Range: -40 to +85˚C**
- **Drop-in Replacements for ZT3243E, MAX3243E, ICL3243E, ISL4243E, ST3243E and SP3243E**
- **High Data Rate at 1000Kbps Available on AX3243F**

Target Applications

- Battery-Powered And Hand-Held Applications
- Industrial and Embedded PCs
- Notebook/POS Terminals
- Data Cables/Cradles for Cell Phones and PDAs
- Industrial Cellular Routers/Gateways/Modems
- Industrial Automation/DAQ Applications
- Surveillance and Security Systems/Medical Equipment
- RFID/Printer/Mouse/Barcode Scanner
- Serial Communication/Peripheral Interface Applications



28-Pin SSOP/TSSOP

Product Selection Guide and Cross Reference

Part Number	Power Supply	RS-232 Drivers	RS-232 Receivers	Data Rate (Kbps)	±15KV ESD IEC61000-4-2	SHUTDOWN Enable	AUTOGREEN Function	Package Type	Temperature Range (℃)	Pin-to-Pin Cross Reference
AX3243LEEA AX3243LEEY	+3V to +5.5V	3	5	250	RS-232 I/O	YES	YES	SSOP-28 TSSOP-28	-40 ~ +85	ZT3243E MAX3243E ICL3243E ISL4243E SP3243E ST3243E

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