

# PRODUCT LAUNCH OVERVIEW



## SP510

Ultra High Speed Multiprotocol  
Serial Transceiver

The SP510 is a highly integrated physical layer solution that is configurable to support multiple serial protocol standards. It incorporates eight (8) drivers and eight (8) receivers, configurable for either differential (V.11 and V.35) or single ended (V.28 and V.10) signaling. The device is designed to support the data and clock signals used in HDLC or SDLC serial ports as either a DTE or DCE. SP510 enables a Serial Communications Controller (SCC) to implement a variety of serial port types including RS-232, RS-449, EIA-530, V.10, V.11, V.28, V.35, V.36, and X.21. All bus pins are ESD protected up to +/- 15kV (HBM).

### Features

- Single Chip Solution for a DTE or DCE Port
- Adjustable Logic Pin – Down to 1.65V
- High Speed Up to 52 Mbps
- +/- 15kV ESD Protection (HBM)
- Built-in Cable Termination
- Operates from a Single 5V Supply
- Driver Short Circuit Protection
- Thermal Shutdown Overload Protection

### Target Applications

- Data Networking
- CSU and DSU
- Data Routers
- Networking Switches
- Test Equipment
- Telecommunication
- Data Communication
- Secured Communication

### Sales Message :

SP510 is the industry's fastest (52 Mbps) single chip multiprotocol serial transceiver solution for a complete DTE or DCE port. Additional advanced features include built-in cable termination, 15kV ESD protection (HBM), and adjustable logic level pin.

### Competition:

Linear Tech – LTC2845 and LTC2847;  
Maxim – MXL1544, MXL1543, MXL1344A  
and MAX3170-MAX3174

### Suggested 1000 pc Resale

SP510 - \$17.70 each

### Part Numbers/Packages:

SP510CM-L (LQFP-100)  
SP510EM-L (LQFP-100)

### Lead Time:

6-8 weeks

### Evaluation Board:

SP510EM-0A-EB

### Technical Support

Email all technical inquiries to [uarttechsupport@exar.com](mailto:uarttechsupport@exar.com)