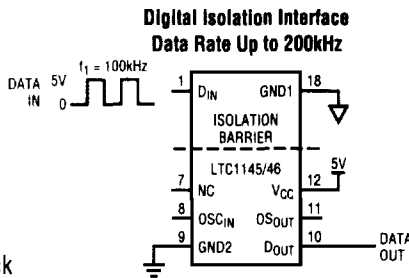


# Isolated and AppleTalk Interface Solutions

## Low Power Digital Isolators

- UL Recognized (LTC1145A, LTC1146A) File E151738 to UL1577
- Low Input Current
  - LTC1145: 700µA, LTC1146: 70µA
- Maximum Input Frequency
  - LTC1145: 200kHz, LTC1146: 20kHz
- TTL Level Output
- Noise Filter Prevents Glitches at the Output
- Output Can Be Synchronized to an External Clock



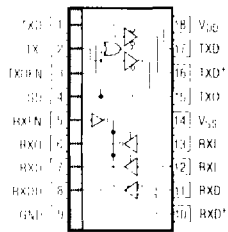
- Low Power Opto-Isolator Replacement
- Isolated Serial Data Interfaces
- Isolated Power MOSFET Drivers

ISOLATION VOLTAGE	INPUT CURRENT	MAX INPUT FREQUENCY	GLITCH-FREE OUTPUT FILTER	EXT CLOCK SYNCH	UL RECOGNIZED	PART NUMBER
2500	700µA	200kHz	Yes	Yes		LTC1145A
2500	70µA	20kHz	Yes	Yes		LTC1146A
500	700µA	200kHz	Yes	Yes		LTC1145
500	70µA	20kHz	Yes	Yes		LTC1146

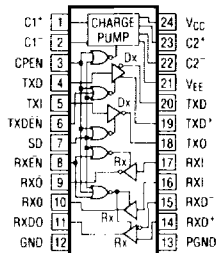
## Complete AppleTalk®/LocalTalk® Transceivers

- Single Chip Complete AppleTalk DCE/DTE Solutions
- Low Power
- Micropower Shutdown (LTC1320/LTC1323/LTC1323-16)
- Micropower Receiver Keep Alive (LTC1323)
- 5V Powered (LTC1323/LTC1323-16/LTC1318)
- Surface Mount Packages
- Thermal/Short Circuit Protection
- Small Charge Pump Capacitors
- Drivers High Impedance in Shutdown/Power Off States

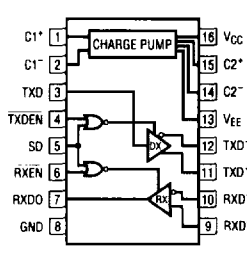
DCE/DTE	REQUIRED SUPPLIES	SUPPLY CURRENT	SHUTDOWN FUNCTION	1 RECEIVER KEEP ALIVE	SUPPLY IN SHUTDOWN	PART NUMBER
DTE	±5V	1.2mA	Yes	—	30µA	LTC1320
DTE	5V	2.4mA	Yes	Yes	65µA	LTC1323
DTE	5V	2.4mA	Yes	—	65µA	LTC1323-16
DCE	5V	18mA	No	—	—	LTC1318
DTE/DCE	5V	1mA	Yes	—	1µA	LTC1324
DCE	5V	8mA/-3mA	Yes	—	10µA	LTC1389



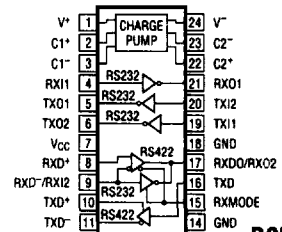
DTE  
LTC1320



DTE  
LTC1323



DTE  
LTC1323-16



DCE  
LTC1318

AppleTalk and LocalTalk are registered trademarks of Apple Computer, Inc.

## V.35 Interface

- Single Chip Provides All V.35 Differential Clock and Data Signals
- Operates From Single 5V Supply (LTC1345)
- Shutdown Mode Reduces I<sub>CC</sub> to 1µA Typ
- Software Selectable DTE or DCE Configuration
- ±10kV ESD Protection
- 10Mbaud Transmission Rate
- Transmitter Maintains High Impedance When Disabled, Shut Down or with Power Off
- Meets CCITT V.35 Specification
- Transmitters are Short-Circuit Protected
- Available in Surface Mount SW Packages
- 5V Powered (LTC1345)
- ±5V Powered (LTC1346)

