LDM2485A and LDM2485B

Signal Powered High Speed RS-232 to RS-485 Converters

Dataforth's Model LDM2485A & LDM2485B high speed, RS-232 to RS-485 interface converters can turn your PC, terminal or other RS-232 device into an RS-485 workstation. Operating over 2 to 4 wires, at data rates up to 115.2 kbps, Models LDM2485A & LDM2485B let your RS-232 machine talk with up to 50 addressable devices in a multipoint polling environment. Since multipoint environments can be difficult to work with, these products have five separate configuration parameters (carrier control, RTS/CTS delay, receive impedance, transmit-off impedance and echo) that allow you to fine tune the converters to your particular application. And to keep your application up and running, both models have built in surge protection. The Model LDM2485A has a DB-25 connector for RS-232 environments, while the Model LDM2485B has a DB-9 connector for EIA-574. Both models have several options for twisted pair connection.

Specifications

Model	LDM2485A/LDM2485B			
Transmission Format	Asynchronous			
Data Rate Range	0-115.2K bps			
Data Rate bps	115.2K	38.4K	9.6K	1.2K
Distance mi km 4.2	2.6 4.7	2.9 7.4	4.6 14.5	9.0
RS-232/EIA-574 Interface	DB-25/DB-9			
RS-485 Interface Options	RJ-11 or RJ-45 jack or terminal block with strain relief			
Transmit Line	2, 4 wire unconditioned twisted pair			
Transmit Mode	4-wire, full or half duplex; 2-wire half duplex			
Control Signals	DSR turns "ON" immediately after the terminal raises DTR; DCD turns "ON" after recognizing the receive signal from the line; CTS turns "ON" after the terminal raises RTS.			
RTS/CTS delay	0 or 8 msec			
Carrier	The carrier is switch selected either continuous operation or controlled by RTS			
Surge Protection	600W power dissipation at 1 ms			
Power	Draws operating power from the RS-232 or EIA-574 data and control signals; no AC power or batteries required.			
Temperature	32° to 122° F (0° to 50° C)			
Size: 2485A Size: 2485B	2.66" x 2.10" x 0.73" (68 x 53 x 19 mm) 2.50" x 1.20" x 0.75" (64 x 31 x 19 mm)			
Weight	2 oz (57 gm)/1.4 oz (40 gm)			

Features

- AVAILABLE WITH DB-25 (RS-232) OR DB-9 (EIA-574) INTERFACE
- CONFORMS TO THE EIA RS-485 STANDARD
- OPERATES ASYNCHRONOUSLY, POINT-TO-POINT OR MULTIPOINT, OVER 2 OR 4 WIRES
- UP TO 50 TERMINAL DROPS IN A MULTIPOINT POLLING ENVIRONMENT
- DATA RATES TO 115,200 BPS
- RANGE UP TO 9.0 MI (14.5 KM)
- DATA PLUS ONE CONTROL SIGNAL PASSED IN EACH DIRECTION
- SELECTABLE RTS-CTS DELAY
- ABLE TO OPERATE WITH OR WITHOUT "ECHO"
- CARRIER MAY BE CONTINUOUS OR "CONTROLLED BY RTS"
- NO AC POWER OR BATTERIES REQUIRED
- 600 WATTS OF SILICON AVALANCHE DIODE SURGE PROTECTION –STANDARD

Dataforth does not authorize or warrant its products for use in life support/critical applications.

Ordering Information

LDM2485A-P	Male DB-25 w/terminal block
LDM2485A-S	Female DB-25 w/terminal block
LDM2485A-PJ1	Male DB-25 w/RJ-11 jack
LDM2485A-SJ1	Female DB-25 w/RJ-11 jack
LDM2485A-PJ4	Male DB-25 w/RJ-45 jack
LDM2485A-SJ4	Female DB-25 w/RJ-45 jack
LDM2485A-P25S	Male DB-25 w/female DB-25
LDM2485A-S25S	Female DB-25 w/female DB-25
LDM2485B-P	Male DB-9 w/terminal block
LDM2485B-S	Female DB-9 w/ terminal block
LDM2485B-PJ1	Male DB-9 w/RJ-11 jack
LDM2485B-SJ1	Female DB-9 w/RJ-11 jack
LDM2485B-PJ4	Male DB-9 w/RJ-45 jack
LDM2485B-SJ4	Female DB-9 w/RJ-45 jack

***Call 800-444-7644 or Fax (520) 741-0762 for Information and Assistance
... or visit our web site at www.dataforth.com***

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