



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Industrial Isolated Converter

Model 485LDRC9

B+B SMARTWORX

Powered by

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PRODUCT FEATURES

- Extend data up to 1.2 km (4,000 ft.)
- 2 kV optical isolation on input/output
- Wide operating temperature (-40 to +80 °C)
- 115.2 kbps data rate
- Modbus compatible
- UL Recognized, NEMA TS2
- Automatic Send Data Control

The 485LDRC9 is an optically isolated RS-232 to RS-422/485 converter. RS-232 signals interface through a DB9 female connector or a terminal block. RS-422/485 signals and power inputs connect to the terminal block. Terminal blocks are arranged to allow easy wiring inside a control panel.

Built-in Automatic Send Data Control circuitry allows quick set-up and eliminates the need for external software drivers to control handshake signals. The converter operates on externally sourced 10-30 VDC power.

Optically isolated data lines (2,000 V on input/output) with 500W surge suppression ensure that connected equipment is protected even in the harshest environments. DIN rail mount design snaps on standard 35mm rail and a small form factor fits neatly into tight cabinets.

The 485LDRC9 is ideal for critical industrial communications, factory automation, in-cabinet conversion, warehouse automation, security, and many other applications.

ORDERING INFORMATION

MODEL NUMBER	RS-232 CONNECTOR	RS-422/485 CONNECTOR
485LDRC9	DB9 Female or Terminal Block	Terminal Blocks

ACCESSORIES

MDR-20-24 - PS, DIN, SLIM, PLASTIC, 24W, 24V

9PAMF6 - 6 ft. (1.8 m) 232 DB9 male to DB9 female serial cable

SPECIFICATIONS

SERIAL TECHNOLOGY	
Data Rate	115.2 kbps
RS-232 - 2 options	
Option 1: Connector	DB9 Female (DCE)
Option 1: Signals	TD, RD, GND
Option 2: Connector	Terminal block
Option 2: Signals	TD, RD, GND
RS-422	
Connector	Terminal block
Signals	TDA(-), TDB(+), RDA(-), RDB(+), GND
Termination	120 (switchable)
RS-485	
Connector	Terminal block
Signals	TDA(-), TDB(+), RDA(-), RDB(+), GND
Modes	2-wire and 4-wire
Termination	120 Ohm (switchable)
ISOLATION	
Lines Protected	Data lines
Method	Optical
Rating	2,000 V
SURGE SUPPRESSION	
Lines Protected	Data lines
Method	TVS
Rating	7.5V bi-directional avalanche breakdown device 500W peak power dissipation
Response Time	< 1 pico-second
INDUSTRIAL BUS	
Modbus	ASCII/RTU

All product specifications are subject to change without notice.
485LDRC9_3316ds

Industrial Isolated Converter

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SPECIFICATIONS - CONTINUED	
POWER	
Connector	Terminal block
Voltage	10-30 VDC
Consumption	0.5 W
Source	External powering required
TERMINAL BLOCKS	
Wire Size	24 to 14 AWG
Torque	4 kfg-cm
LED INDICATORS	
Power (RED)	On when power applied
TD (RED)	Flashes when RS-422/485 data is transmitted
RD (RED)	Flashes when RS-422/485 data is received
ENCLOSURE	
Material	Plastic
IP Rating	20
Dimensions	2.5 x 7.9 x 9.5 cm (1.0 x 3.1 x 3.7 in)
Mounting	35 mm DIN rail (panel mount adapter available)

ENVIRONMENTAL	
Operating Temperature	-40 to +80 °C (-40 to +176 °F)
Storage Temperature	-40 to +85 °C (-40 to +185 °F)
Operating Humidity	0 to 95% non-condensing
MTBF, 485LDRC9	257448 hours
MTBF Calculation Method	MIL 217F Parts Count Reliability Prediction
APPROVALS / CERTIFICATIONS - 485LDRC9	
cULus Recognized, File Number: E222870, NEMA TS2	
2004/108/EC	Electromagnetic Compatibility Directive
2011/65/EU	Reduction of Hazardous Substances Directive
EN 55022: +AC	Information technology equipment - Class A RF Emissions
EN 55024	Information technology equipment - Immunity (Light-industrial Environments)
EN 61000-4-2	ESD Immunity
EN 61000-4-3: +A2	Radiated Field Immunity (RFI)
EN 61000-4-4	EFT/Burst Immunity
EN 61000-4-5	RF Conducted Immunity

MECHANICAL DIAGRAM

