

RS-422 Port-powered Converters



Features

- Convert RS-232 TD and RD to balanced RS-422 signals
- Extend RS-232 data signals up to 1.2 km
- Baud rates up to 115.2 kbps
- RS-232/RS-422 bi-directional transmission
- Quick, easy in-line installation suitable for field service
- Powered from RS-232 handshake lines no power supply required



Introduction

These port-powered converters change RS-232 TD and RD to balanced RS-422 signals extending communication distances up to 1.2 km. Port-powered from the RS-232 DTR and RTS handshake lines, no power supply is needed. At least one handshake line must be present, in either a positive or negative voltage state. No worry about software control of the handshake lines. If port power is not sufficient, model ULI-223T can be powered from an external PSU. Converters are configured to transmit both directions in an RS-232 and RS-422 system. RS-232 pinout connects directly to a computer's COM port or any other DTE device.

Specifications

Serial Technology

 RS-422 Operation RS-422 4-wire Termination None

Model:	RS-232	RS-422	Data Rate, max:	Biasing
Wiodoi.	Connector:	Connector:		Resistors:
ULI-223D	DB9 female	DB9 female	115.2 kbps 4.7k	4.7k Ohms
ULI-223T	DD9 lelliale	Terminal block		4.7 K UIIIIIS

Power

 Port Power RS-232 handshake lines

Model:	Source:	Connector:	Input Voltage:
ULI-223D	Port-power	_	_
ULI-223T	Port-power OR	Terminal block	External PSU option: 12 Vdc

Mechanical

Model:	Enclosure:	Installation:	Dimensions, mm:	Weight, gm:
ULI-223D	Plastic	In-line	61 x 33.3 x 17.4	45.3
ULI-223T	Plastic	iii-iiile	87.3 x 31.8 x 15.9	

Meantime Between Failures (MTBF)

MIL217F Parts Count Reliability Prediction Calculation Method

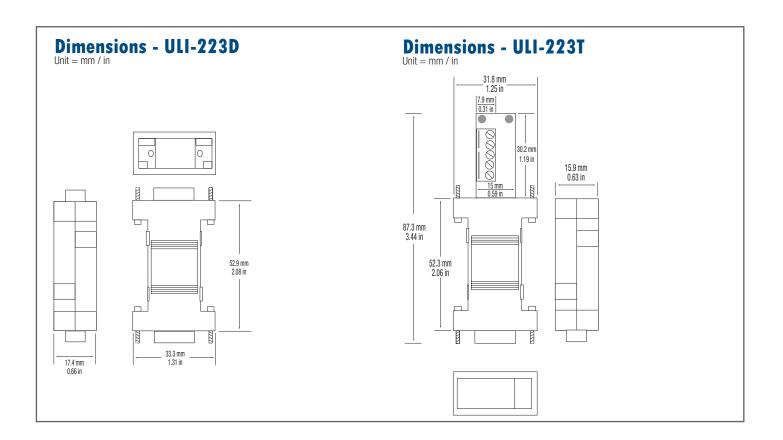
Model:	MTBF, hours:
ULI-223D	2094328
ULI-223T	849670

Environmental

 Operating Temperature 0 to +70 °C Storage Temperature -40 to +85 °C Operating Humidity 95%, non-condensing

Regulatory/Approvals/Certifications

Model:	Approvals:	CE - Directives:	CE - Standards:
ULI-223D	FCC, CE	2014/30/EU – Electromagnetic Compatibility Directive	EN 55032 Class A – Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements
		2011/65/EU amended by 2015/863/EU – Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU – Waste Electrical and Electronic Equipment (WEEE)	EN 55024 – Information Technology Equpment – Immunity Characteristics – Limits and Methods of Measurement
			EN 61000-6-4 + A1 – Generic Emission Standard for Industrial Environments (Class A)
			Standard for industrial Environments (class A)
			EN 61000-6-2 – Generic Immunity Standard
			for Industrial Environments



Ordering Information

Model	Part Number to Order	Description
ULI-223D	BB-422PP9R	RS-422 Converter - RS-232 DB9F to RS-422 DB9F, Port-powered.
ULI-223T	BB-485PP9TB	RS-422 Converter - RS-232 DB9F to RS-422 TB, Port-powered. (Optional external PSD, sold separately.)

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