

# DA-682A-UART Series Expansion Modules

Expansion modules with RS-232/422/485 and RS-232/485 serial ports



## Features and Benefits

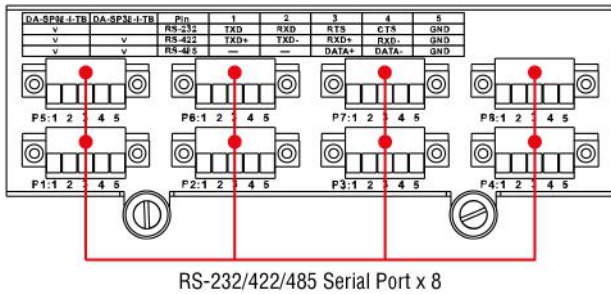
- 8-port RS-232/422/485 serial module with DB9 connector
- 8-port RS-422/485 isolated serial module with terminal block connector
- 8-port RS-232/422/485 isolated serial module with DB9 or terminal block connector
- 8-port RS-232/422/485 isolated serial module with DB9 or terminal block connector, EMC Level 4

## Introduction

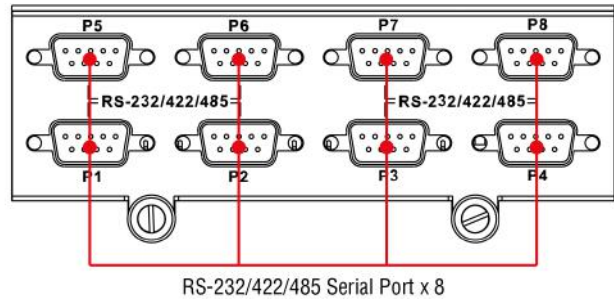
The DA-682A-UART Series expansion modules include an 8-port RS-232/422/485 module with either DB9 or terminal block connectors, and an 8-port RS-422/485 module with terminal block connectors. Some modules are even designed with 2 kV digital isolation, making them fully suitable for the great demands of industrial applications that use serial communication.

## Appearance

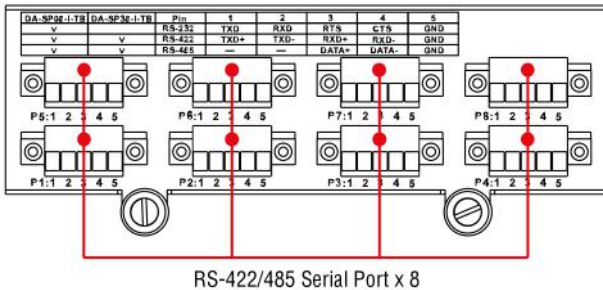
DA-SP08-I-TB, DA-SP08-I-EMC4-TB



DA-SP08-DB, DA-SP08-I-DB, DA-SP08-I-EMC4-DB



DA-SP38-I-TB



## Specifications

### Computer Interface

Serial Ports	DA-SP08-I-EMC4-TB: 8-port isolated RS-232/422/485, DB9 connector, EMC Level 4 DA-SP08-I-EMC4-DB: 8-port isolated RS-232/422/485, terminal block connector, EMC Level 4 DA-SP08-I-TB: 8-port isolated RS-232/422/485, terminal block connector DA-SP08-I-DB: 8-port isolated RS-232/422/485, DB9 connector DA-SP38-I-TB: 8-port isolated RS-422/485, terminal block connector DA-SP08-DB: 8-port RS-232/422/485, DB9 connector
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### Serial Interface

Baudrate	50 bps to 921.6 kbps
Data Bits	5, 6, 7, 8
ESD	15 kV
Flow Control	ADDC® (automatic data direction control) for RS-485, RTS/CTS, XON/XOFF
Isolation	2 kV
Parity	None, Even, Odd, Space, Mark
Stop Bits	1, 1.5, 2
Surge	DA-SP08-I-EMC4-TB/DA-SP08-I-EMC4-DB: 4 kV

### Serial Signals

RS-232	DB9: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Terminal block: TxD, RxD, RTS, CTS, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND

### Physical Characteristics

Dimensions (without ears)	130 x 150 mm (42 x 5.12 in)
Weight	DA-SP08-DB: 266 g (0.59 lb) DA-SP08-I-DB: 290 g (0.64 lb) DA-SP08-I-TB: 290 g (0.64 lb) DA-SP08-I-EMC4-DB: 323 g (0.71 lb) DA-SP08-I-EMC4-TB: 262 g (0.58 lb) DA-SP38-I-TB: 240 g (0.53 lb)

### Environmental Limits

Operating Temperature	-25 to 60°C (-13 to 140°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

### Declaration

Green Product	RoHS, CRoHS, WEEE
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### MTBF

Time	1,753,143 hrs
Standards	Telcordia (Bellcore), GB

## Warranty

Warranty Period	3 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

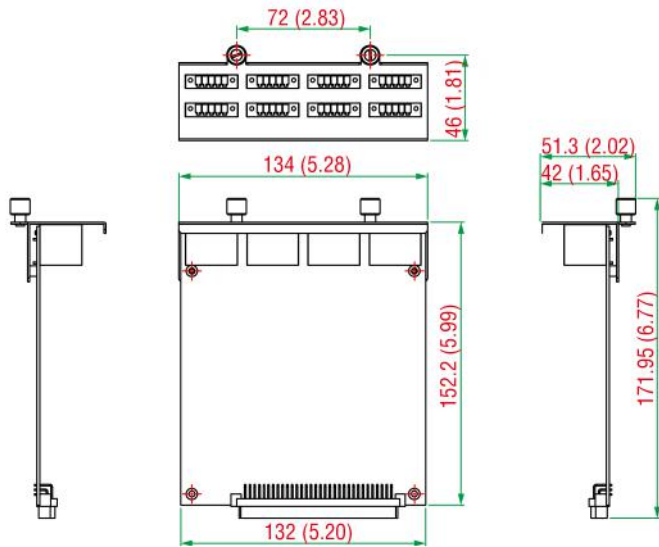
## Package Contents

Device	1 x DA-682A-UART Series expansion module
Documentation	1 x warranty card

## Dimensions

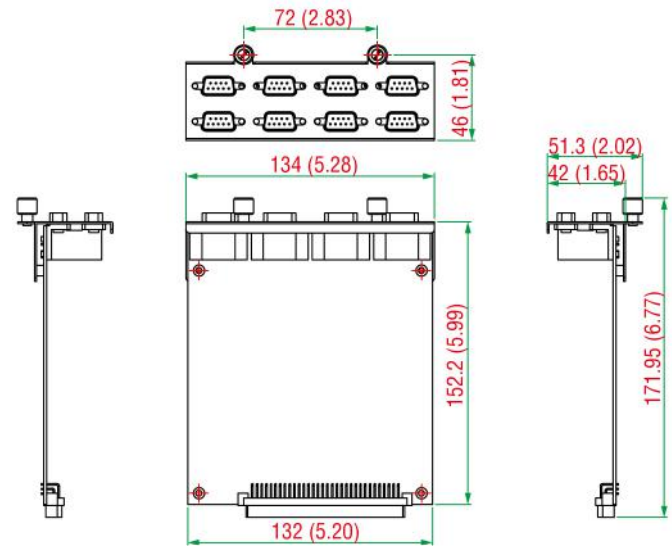
### Terminal Block Series

Unit: mm (inch)



### DB9 Series

Unit: mm (inch)



## Ordering Information

Model Name	No. of Ports	RS-232/422/485	RS-422/485	DB9	5-Pin Terminal Block
DA-SP08-DB	8	✓	–	✓	–
DA-SP08-I-TB	8	✓	–	–	✓
DA-SP08-I-DB	8	✓	–	✓	–
DA-SP08-I-EMC4-DB	8	✓	–	✓	–
DA-SP08-I-EMC4-TB	8	✓	–	–	✓
DA-SP38-I-TB	8	–	✓	–	✓

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