

twareLAB

Serial Signal Converter Modules

Datasheet Ver1.0



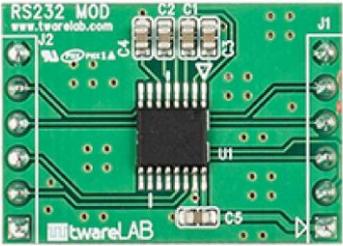
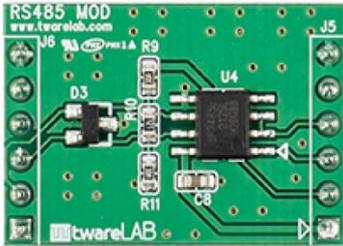
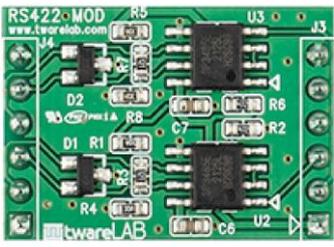
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1 INTRODUCTION

3.3V TTL level 의 Serial Signal 을 RS232/RS485/RS422 등의 표준 Serial Signal 로 변환하는 모듈

1.1 PRODUCTS

Part Name	Image	Description
RS232-MOD		3.3V TTL Level UART Signal <-> RS232 Sign
RS485-MOD		3.3V TTL Level UART Signal <-> RS485 Sign
RS422-MOD		3.3V TTL Level UART Signal <-> RS422 Sign

2 HARDWARE SPECIFICATION

2.1 RS232-MOD

2.1.1 Layout



Dimension(mm): 18.2(H) x 25(W) x 11.6(D)

2.1.2 Pin Map

J2	Description	J1	Description
1	NC	1	3.3V
2	TXD (RS232 Level)	2	TXD (TTL Level)
3	RXD (RS232 Level)	3	RXD (TTL Level)
4	RTS (RS232 Level)	4	RTS (TTL Level)
5	CTS (RS232 Level)	5	CTS (TTL Level)
6	GND	6	GND

2.2 RS485-MOD

2.2.1 Layout



Dimension(mm): 18.2(H) x 25(W) x 11.6(D)

2.2.2 Pin Map

J6	Description	J5	Description
1	NC	1	3.3V
2	485 A	2	TXD (TTL Level)
3	485 B	3	RXD (TTL Level)
4	NC	4	RTS (TTL Level)
5	NC	5	NC
6	GND	6	GND

※ RTS Signal is used to handle TXE pin on RS485 Transceiver. It should be handled by MCU part

2.3 RS422-MOD

2.3.1 Layout



Dimension(mm): 18.2(H) x 25(W) x 11.6(D)

2.3.2 Pin Map

J4	Description	J3	Description
1	<i>NC</i>	1	<i>3.3V</i>
2	<i>422 A</i>	2	<i>TXD (TTL Level)</i>
3	<i>422 B</i>	3	<i>RXD (TTL Level)</i>
4	<i>422 Z</i>	4	<i>NC</i>
5	<i>422 Y</i>	5	<i>NC</i>
6	<i>GND</i>	6	<i>GND</i>

3 HISTORY

Date	Description
2025-03-10	V1.0 First Released