



FR-48522

(RS422/ 485) Breakout Board

Quick Install Guide (QIG) Preliminary

General Description

Making UART-TTL logical level convert to RS422/ RS485

Feature:

UART-TTL with 3.3V/ 5V tolerance input.

An optional 120 Ohm (Terminate Resistor) built on board.

RoHS Compliant.

Ordering Information:

[FR-48522W](#): with wire to board connector.

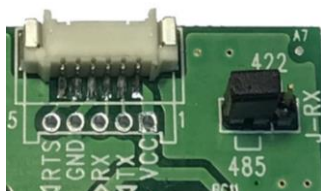
[FR-48522D](#): with board to board Header.

[WC7067060153](#): 6-pin to 6-pin, wire cable for input, L=150mm.

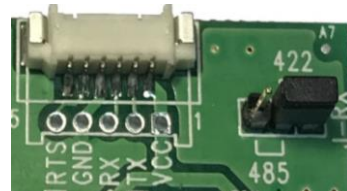
Connector:

UART-TTL Connector					
UART3: (Wafer-6pin, 1.25mm, 90°) FR-48522W only			JP3: (Header-5pin, 2.0mm, 180°) FR-48522D only		
Pin num.	Description	I/O	Pin num	Description	I/O
Pin1	Power Input (3.3V/ 5V)	P	Pin1	Power Input (3.3V/ 5V)	P
Pin2	UART-TX	I	Pin2	UART-TX	I
Pin3	UART-RX	O	Pin3	UART-RX	O
Pin4	GND	P	Pin4	GND	P
Pin5	UART-RTS	I	Pin5	UART-RTS	I
Pin6	NC				

* The UART-RTS is a data-flow direction control pin, only available as FR-48522 is set to RS485mode. Driving the UART-RTS to low will receive data from FR-48522.



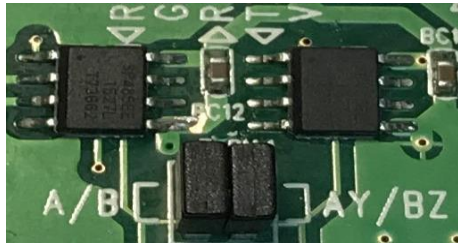
FR-48522-W
set to RS485 mode



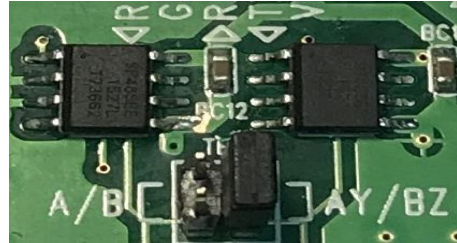
FR-48522-W
set to RS422 mode



Terminate Resister Jumper: (Header-2x2pin, 2.0mm, 180°)	
Pin	Description
AY/BZ side	Set terminate resister for the output of RS422 or RS485.
A/B side	Set terminate resister for the input channel of RS422 only.



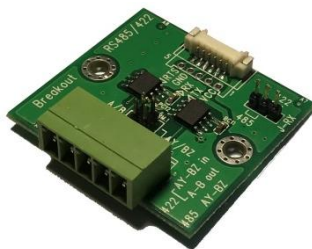
Set TR (120 Ohm) for RS422mode



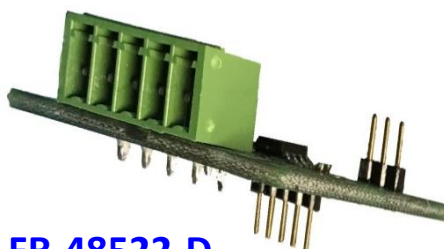
Set TR (120 Ohm) for RS485mode

Terminal Block Connector: (5-pin, Male, 90°)					
Pin num.	Symbol	Jumper(J-RX) set on 422 side		Jumper(J-RX) set on 485 side	
		RS422 mode		RS485 mode	
		Description	I/O	Description	I/O
Pin1	GND	Ground		Ground	
Pin2	AY	Output Channel+	O	In/Out Channel+	I/O
Pin3	BZ	Output Channel-	O	In/Out Channel-	I/O
Pin4	A	Input Channel+	I	NC	
Pin5	B	Input Channel-	I	NC	

Dimension:



FR-48522-W



FR-48522-D

