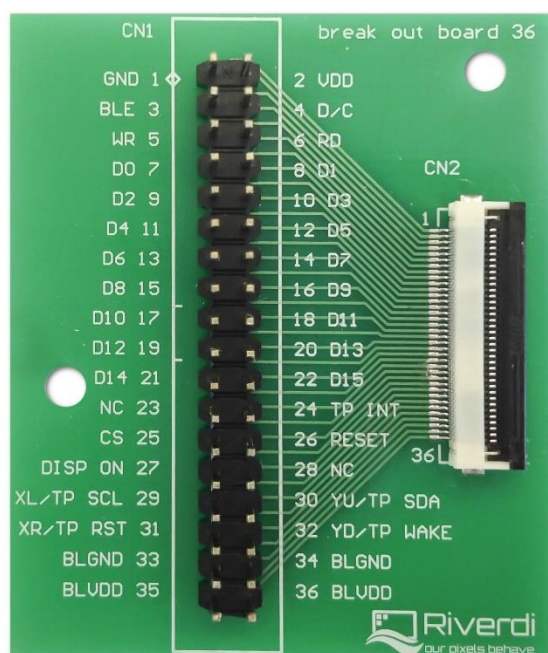




## Break Out Board 36

### User Manual

Rev.1.2  
2015-12-16



## REVISION RECORD

REVNO.	REVDATE	CONTENTS	REMARKS
	2015-06-02	Preliminary edition	
1.0	2015-07-03	Initial Release	
1.1	2015-12-10	Add development kit information	
1.2	2015-12-16	Add Connection method	

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## 1. DESCRIPTION

Break Out Board 36 is an evaluation tool which allows to expand Riverdi TFT module pins to user friendly 2.54 mm pins header. This tool can be used for 3.5", 4.3" and 7.0" Riverdi displays with SSD1963 controller.

Break Out Board 36 has two connectors: CN2, 36 pin downside ZIF connector, for connecting display module via 150 mm FFC and CN1, 36 pin IDC connector, for connecting users free cables.

## 2. DEVELOPMENT KIT SET

Break Out Board 36 kit contains:

- Break Out Board 36,
- 36 pin, 0.5mm, 15 cm length FFC

## 3. PIN CONFIGURATION

Pin configuration for displays with SSD1963 controller is shown in the table below.

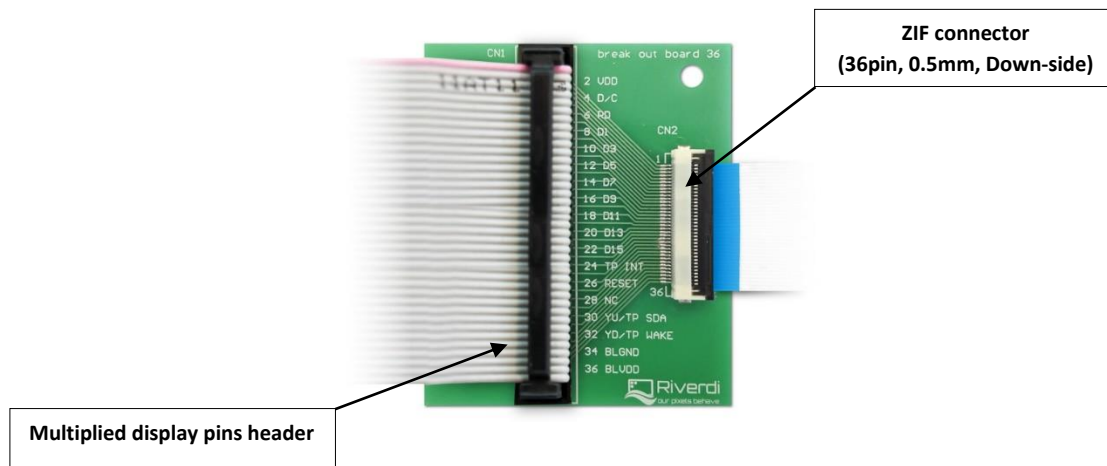
Table 1. PIN configuration for SSD1963 controller

PIN NO	SYMBOL	DESCRIPTION
1	GND	Power Ground
2	VDD	Power Supply: +3.3V
3	BL_E	Backlight Control Signal, H: On/L: Off (internally pulled-up to BLVDD)
4	D/C	Data/Command Select
5	WR	Write Strobe Signal
6	RD	Read Strobe Signal
7-22	D0-D15	Data Bus. Pins not used should be floating
23	NC	No Connection
24	NC	No Connection
25	CS	Chip Select
26	RESET	Hardware reset
27	DISP ON	Display Control H: On/L: Off (internally pulled-up)
28	NC	No Connection
29	XL/TP SCL	Touch left electrode/ Touch Panel I2C SCL Signal
30	YU/TP SDA	Touch up electrode/ Touch Panel I2C SDA Signal
31	XR/TP RST	Touch right electrode/ Touch Panel RST Signal, Active Low
32	YD/TP WAKE	Touch down electrode/ Touch Panel Wake Signal, Active Low
33	BLGND	Backlight ground, can be connected to GND
34	BLGND	Backlight ground, can be connected to GND
35	BLVDD	Backlight power supply, can be connected to VDD
36	BLVDD	Backlight power supply, can be connected to VDD

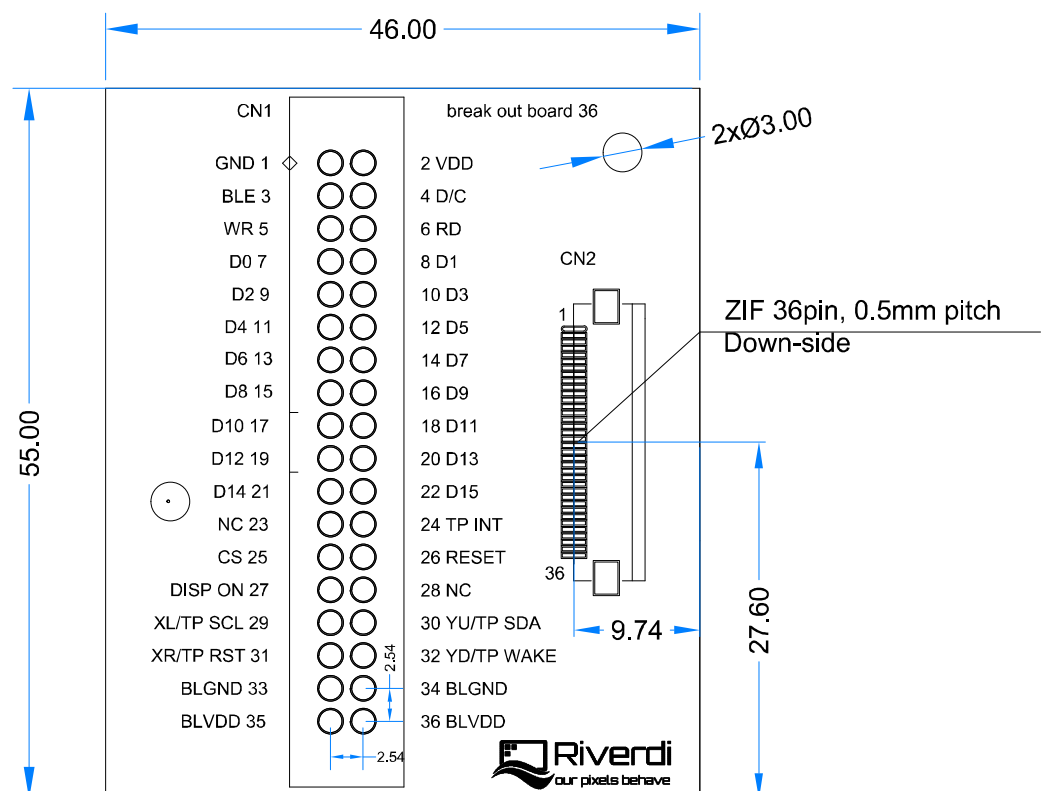
## 4. CONNECTION

Connection method is shown in Figure 1.

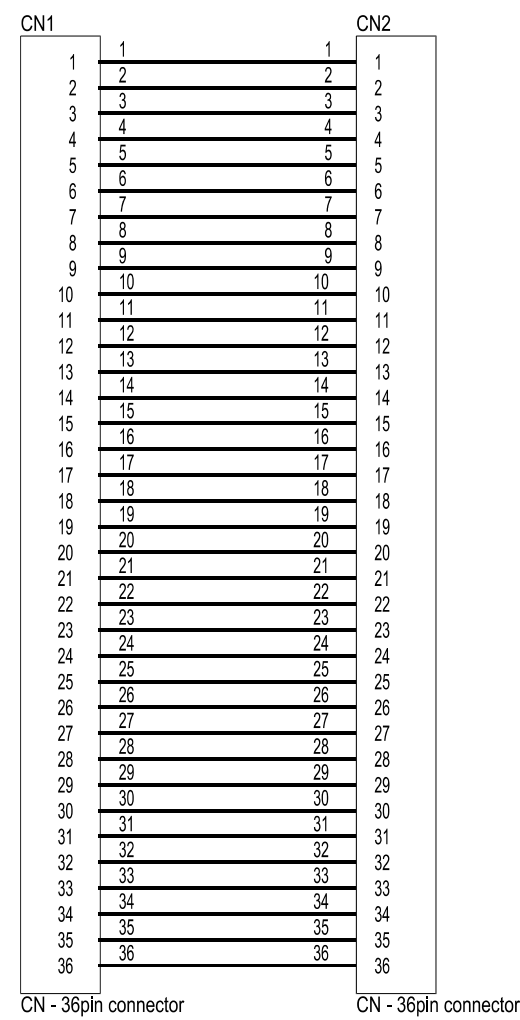
Figure 1. Break Out Board 36 connection method



## 5. MECHANICAL DRAWING



6. ELECTRICAL SCHEMATIC



## 7. LEGAL INFORMATION

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