Crystalfontz

Breakout Boards - Quick Start Guide

1. Part Numbering

Part number configuration

CFABB-CS050Z06G-A0
| | | |
| | | | -> *CS050Z06G-A0* – Included connector PN
| | | -> *BB* – Breakout board
| -> *CFA* – Crystalfontz America

Connector part number configuration

CS050Z06G-A0
| | | | | | |
| | | | | | | -> *A0* – Family and revision
| | | | | | -> *G* - Gold pins
| | | | | -> *06* – 6 pins
| | | | -> *Z* – Top and bottom connectors
| | | -> *050* – 0.5mm pitch connector
| -> *CS* – Crystalfontz connector

2. Breakout Board Usage

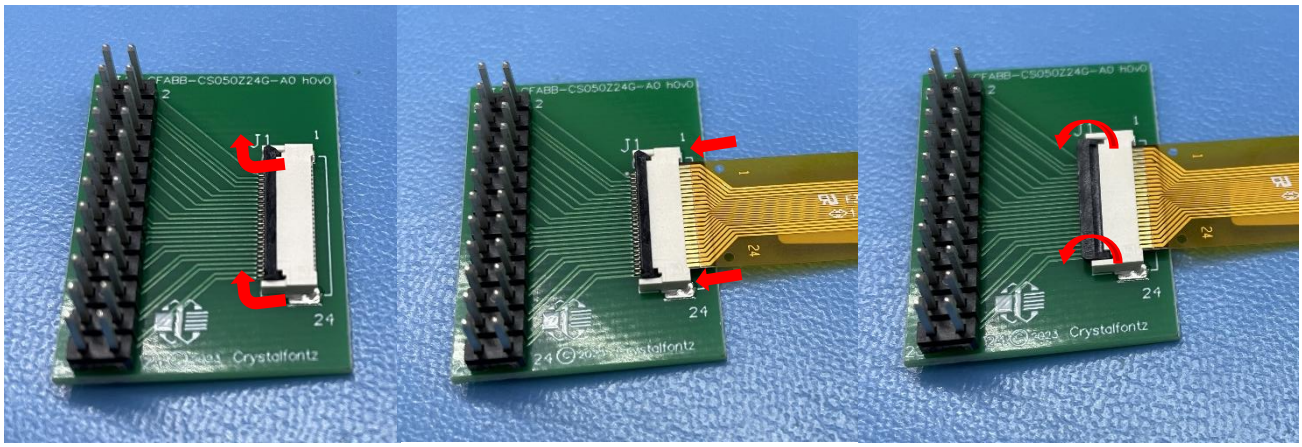
Soldering a header to the through holes

A dual-row header such as the CT254R72T-A0 can be used to populate the through holes.

Based on the breakout board you have, break apart the number of headers required. Insert the header into the breakout board in your preferred direction. There are cases where, based on the ZIF tail of the display, it would be more practical to apply the header pointing up or down. Once the direction of the header is decided, start soldering the pins on the board. Continue until each pin is soldered.

Inserting a display

The connectors on the breakout board have both bottom and top connectors which means a ZIF tail could be connected in either direction. The main factor to consider is the pitch between pins. There are instances where a ZIF tail will fit but the pins will not match because of their pitch. This information is in the respective display's datasheet or product page. Once the pitch has been determined, the ZIF tail can be inserted. For ease of use, the breakout board has been numbered from 1 – x based on its number of pins. Connecting a display with the tail facing up (or down) may result in the numbers being reversed, an important point to remember before wiring the board to an MCU. Once the orientation of the tail has been determined, open the latch of the connector on the breakout board. The latch folds upwards. Insert the ZIF tail into the connector firmly and close the latch. The breakout board can now be wired to the MCU.



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