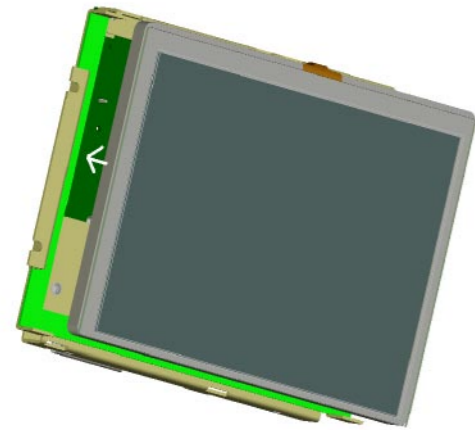


STEP 1 FITTING THE LCD TO THE METAL MOUNTING PLATE

The first step is to fit the LCD to the Metalwork. The RE1 and RE2 RISC Engines are similar footprint and connecting them to the LCD's and Blue Chip metalwork is the same. The first step is to fit the LCD to the Metalwork. The UMSH8253, UMSH8065, UMSH8173 and UMSH8376 LCD's require to be bonded to the metalwork using the VHB adhesive tape which is already applied to the metal work. Before fitting, check that the Electronics all work together, as once fitted it will not be easy to separate the parts

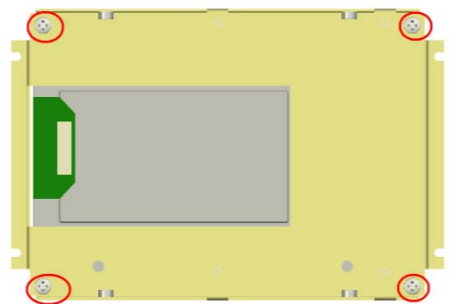
Peel back the VHB cover paper and carefully align the LCD with the metalwork before pressing together, ensuring that any cables on the LCD are placed through the relevant cut out in the metalwork.

Before starting it may also be useful to roughly assemble the components so that you are familiar with how SBC's are aligned and how best to fold the FFC cable(s)



NOTE: THE UMSH8044 LCD (5.7 inch 320 x 240 res)

The UMSH8044 LCD is attached to the metalwork with 4 D3x6 POZI screws supplied, as shown



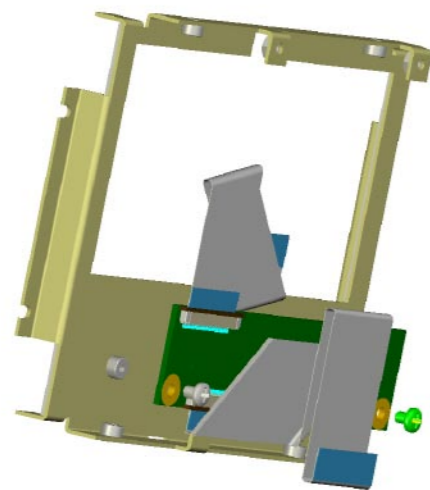
STEP 2 FITTING THE PERSONALITY MODULE TO THE METAL MOUNTING PLATE

After this, attach the Personality module to the back of the metal work as shown

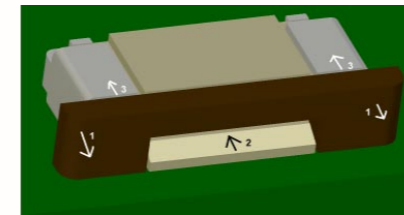
Note to ease fitting, the 50 way FFC cables (connects the Personality Module to the RE1/RE2) should be folded and attached to the Personality module before assembly.

The UMSH8065 and UMSH8253 LCD's have a pre fitted FFC which connects to the Personality Module. The UMSH8044 (33way) UMSH8376 (40 way) and UMSH8173 (40 way) require an additional FFC in order to connect the LCD to the Personality Module

Use the 2 x M3x4 POZI screws supplied

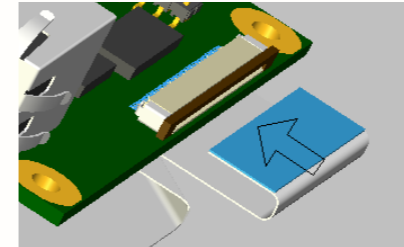


NOTE: THE FCC connectors



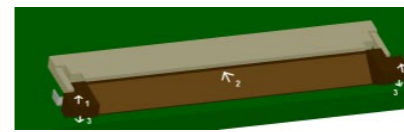
The FFC connectors are small and fragile so great care should be taken when fitting cables. The FFC cables are attached as follows

Step 1: carefully ease the brown section forward away from the connector body.

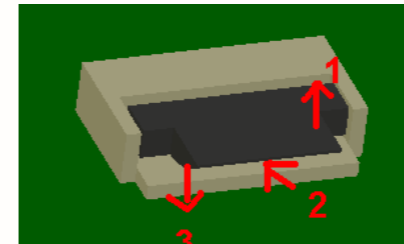


Step 2: insert the FFC cable (exposed connectors side down) as shown

Step 3: push the brown section back to lock the cable in position



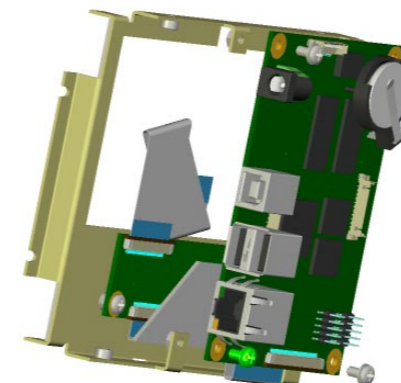
This connector is used with the UMSH8253 LCD. Carefully lift the brown tab, and feed the FFC into the connector above this tab – the exposed connections should be upwards. carefully lower the tab again to lock the cable in place.



This small connector is also used with the UMSH8253 LCD.

Carefully lift the tab and insert the FFC cable below the tab (exposed connectors side down).

Lower the tab again to lock home



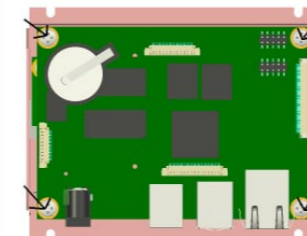
UMSH8376 5.7 high res display

STEP 3 FITTING THE SD card and Audio Cable

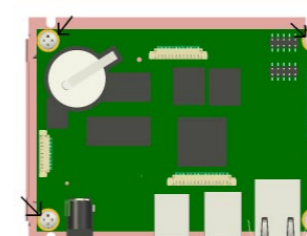
Next, fit the SD card and audio cable, if supplied, and attach the RE SBC board to the metal work using the M3 Nut and M3x6 SEM screws to secure in place. All other cables can be attached once the unit has been assembled

Note: Depending on the way the FFC cable has been folded and the orientation of the RE board on the rear of the metal work, it may be better to attach the 50 way FFC cable to the RE before attaching the board it to the metal work

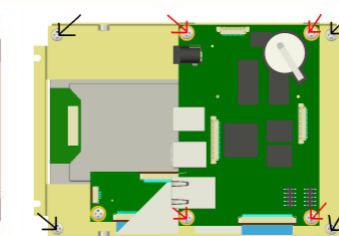
The picture on the left shows the UMSH8376 5.7 assembly. The other assembly variants are shown below. Lastly fit the accessory cables as required



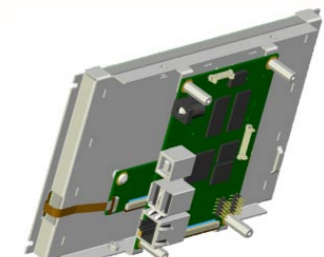
UMSH8253 4.3 inch



UMSH8065 3.5 inch

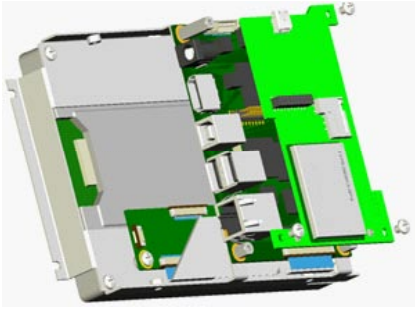


UMSH8044 5.7 low res



UMSH8173 7 inch

FITTING THE RE2 COMMUNICATIONS MODULE



If the RE2 Communications module is to be attached, fit this before fitting the RE2 retaining spacer/screws. It is easily located onto RE2 as shown on the left

Without the Communication module, 4 x M3x15 Hex Spacers are required. With the Communication module, 4 x M3x6 Hex spacers are required and 3 x M3 x 4 Pan Head machine screws

Lastly fit the accessory cables as required. (*Note - this option is not available with the RE1 board*)

YOU ARE NOW READY TO START USING THE RE SINGLE BOARD COMPUTER

Once assembled, apply power and the RE SBC is ready to go.

If required, the RE SBC User Guide provides details on setting up and configuring the RE single board computer. A point to note is that for programming using the Configuration Utility, a standard USB "A to B" cable will be required. This type of cable is available from any PC accessory store.

OTHER SUPPORTING TECHNICAL DOCUMENTATION

- RE1 Single Board Computer Cable Drawings
- RE1 Single Board Computer CE 6.0 Programmers Guide
- RE1 Single Board Computer Datasheet
- RE1 Single Board Computer Datasheet
- RE SBC Display Kit Datasheet
- RE1 Single Board Computer User Guide