

XC4630 User Guide

Brief Description:

A large, colourful touch display shield which piggy-backs straight onto your Uno or Mega. Display photos from the Micro SD card slot on the display to create a slick and professional-looking project.

Setup:

The XC4630 shield simply sits on top of the Arduino platform.

Software:

Use the Arduino library `MCUFRIEND_kbv` found in the Arduino library manager or through the following github link: https://github.com/prenticedavid/MCUFRIEND_kbv

Once installed, you must modify `MCUFRIEND_kbv.cpp` found in the library folder; ie:

```
Documents/Arduino/libraries/MCUFRIEND_kbv/MCUFRIEND_kbv.cpp
```

Edit this file so that `SUPPORT_8230` is defined; you can undefine the other chipsets to save space.

```
C: > Users > dw06 > Documents > Arduino > libraries > MCUFRIEND_kbv > MCUFRIEND_kbv.cpp > ...
1  // #define SUPPORT_0139          //S6D0139 +280 bytes
2  // #define SUPPORT_0154          //S6D0154 +320 bytes
3  // #define SUPPORT_1289          //costs about 400 bytes
4  // #define SUPPORT_1580          //R61580 Untested
5  // #define SUPPORT_1963          //only works with 16BIT bus anyway
6  // #define SUPPORT_4532          //LGDP4532 +120 bytes. thanks Leodino
7  // #define SUPPORT_4535          //LGDP4535 +180 bytes
8  // #define SUPPORT_68140         //RM68140 +52 bytes defaults to PIXFMT=0x55
9  // #define SUPPORT_7781          //ST7781 +172 bytes
10 #define SUPPORT_8230            //UC8230 +118 bytes
11 // #define SUPPORT_8347D         //HX8347-D, HX8347-G, HX8347-I, HX8367-A +520 bytes,
12 // #define SUPPORT_8347A         //HX8347-A +500 bytes, 0.27s
13 // #define SUPPORT_8352A         //HX8352A +486 bytes, 0.27s
14 // #define SUPPORT_8352B         //HX8352B
15 // #define SUPPORT_8357D_GAMMA   //monster 34 byte
16 // #define SUPPORT_9225          //ILI9225-8, ILI9225-G ID=0x9225, ID=0x9226 +380 byte
17 // #define SUPPORT_9326_5420     //ILI9326, SPFD5420 +246 bytes
18 // #define SUPPORT_9342          //costs +114 bytes
19 // #define SUPPORT_9806          //UNTESTED
20 // #define SUPPORT_9488_555      //costs +230 bytes, 0.03s / 0.19s
21 // #define SUPPORT_B509_7793     //R61509, ST7793 +244 bytes
22 // #define OFFSET_9327_32       //costs about 103 bytes, 0.08s
23
```

Examples:

You will then be able to use the complete library for your project; you can use the

```
Examples > MCUFRIEND_kbv > showBMP_kbv_Uno
```

to display an `.bmp` image from SD card onto the screen. (must be 24bit colour or less.)