# UTFT

**Arduino and chipKit Universal TFT display library**

# Supported display modules & LCD Controllers

These display modules have been tested, and works with the UTFT library. Other modules may work as long as they have one of the supported controllers.

| Supplier: | ITead Studio | | |
|---|---|---|---|
| **Website:** | **http://imall.iteadstudio.com/** | | |
| **Module** | **Model for UTFT()** | **Controller** | **Notes** |
| ITDB02-1.8SP | ITDB18SP | ST7735 | 5V only[1] |
| ITDB02-2.2SP | ITDB22SP | HX8340-B(N) | Retired, 5V only[1] |
| ITDB02-2.2 | ITDB22 | HX8340-B(T) | |
| ITDB02-2.4 | ITDB24 | ILI9325C | Retired |
| ITDB02-2.4D | ITDB24D | ILI9325D | Retired |
| ITDB02-2.4DWOT | ITDB24DWOT | ILI9325D | Retired |
| ITDB02-2.4E | ITDB24E_8 | S6D1121 | 8bit mode |
| ITDB02-2.4E | ITDB24E_16 | S6D1121 | 16bit mode |
| ITDB02-2.5H | ITDB25H | S1D19122 | Retired |
| ITDB02-2.8 | ITDB28 | ILI9325D | |
| ITDB02-3.2 | ITDB32 | HX8347-A | Retired |
| ITDB02-3.2WC | ITDB32WC | ILI9327 | Retired |
| ITDB02-3.2S | ITDB32S | SSD1289 | |
| ITDB02-3.2WD | ITDB32WD | HX8352-A | |
| ITDB02-4.3 | ITDB43 | SSD1963 | |
| ITDB02-5.0 | ITDB50 | SSD1963 | |

| Supplier: | ElecFreaks | | |
|---|---|---|---|
| **Website:** | **http://www.elecfreaks.com/store/** | | |
| **Module** | **Model for UTFT()** | **Controller** | **Notes** |
| TFT01-1.8SP | TFT01_18SP | ST7735S | May require external power |
| TFT01-2.2 | TFT01_22 | S6D0164 | |
| TFT01-2.2SP | TFT01_22SP | ILI9341 | May require external power |
| TFT01-2.4 | TFT01_24_8 | ILI9325D | 8bit model, Retired |
| TFT01-2.4 | TFT01_24_16 | ILI9325D | 16bit model, Retired |
| TFT01-2.8 | TFT01_28 | ILI9325D | |
| TFT01-3.2 | TFT01_32 | SSD1289 | |
| TFT01_3.2W | TFT01_32W | ILI9327 | Retired |
| TFT01_3.2WD | TFT01_32WD | HX8352-A | |
| TFT01-5.0 | TFT01_50 | SSD1963 | |
| TFT01-7.0 | TFT01_70 | SSD1963 | |

| Supplier: | NKC Electronics | | |
|---|---|---|---|
| **Website:** | **http://store.nkcelectronics.com/** | | |
| **Module** | **Model for UTFT()** | **Controller** | **Notes** |
| RGB LCD 65K color module | LPH9135 | PCF8833 | |

| Supplier: | Electronics Lee | | |
|---|---|---|---|
| **Website:** | **http://stores.ebay.com/electronics-lee** | | |
| **Module** | **Model for UTFT()** | **Controller** | **Notes** |
| 3.2" TFT LCD Arduino Shield Revision A | ELEE32_REVA[2] | SSD1289 | Uses 16bit latched mode[3] Arduino Shield not supported on chipKit or Arduino Due |
| 3.2" TFT LCD Arduino Shield Revision B | ELEE32_REVB | SSD1289 | 8bit mode[4] Arduino Shield not supported on chipKit or Arduino Due |

| Supplier: | General Electronics-Tech | | |
|---|---|---|---|
| **Website:** | **http://www.geeetech.com/** | | |
| **Module** | **Model for UTFT()** | **Controller** | **Notes** |
| 2.2" TFT LCD | GEEE22 | HX8340-B(T) | |
| TFT 2.4" With SD Touch Module | GEEE24 | ILI9320 | 5V only[1] |
| TFT 2.8" With SD Touch Module | GEEE28 | ILI9320 | 5V only[1] |
| TFT 3.2" With SD Touch Module | GEEE32 | SSD1289 | |

| Supplier: | Coldtears Electronics | | |
|---|---|---|---|
| **Website:** | **http://stores.ebay.com/coldtears-electronics-store** | | |
| **Module** | **Model for UTFT()** | **Controller** | **Notes** |
| 2.2" TFT LCD Module | CTE22 | S6D0164 | Basic support only[5] |
| 2.8" TFT LCD Module | CTE28 | ILI9325D | Basic support only[5] |
| 3.2" TFT LCD Module | CTE32 | SSD1289 | Basic support only[5] |
| 3.2" (480x320) TFT LCD Module | CTE32HR | ILI9481 | Basic support only[5] |
| 3.2" Wide TFT LCD Module | CTE32W | HX8352-A | Basic support only[5] |
| 5.0" TFT LCD Module | CTE50 | SSD1963 | Basic support only[5] |
| 7.0" TFT LCD Module | CTE70 | SSD1963 | Basic support only[5] |

| Supplier: | Watterott electronic | | |
|---|---|---|---|
| **Website:** | **http://www.watterott.com/** | | |
| **Module** | **Model for UTFT()** | **Controller** | **Notes** |
| MI0283QT-9A | MI0283QT9 | ILI9341 | Only tested on Arduino Uno |

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[1] May work on 3.3v boards (chipKit and Arduino Due) but this has not been verified
[2] Changed from INFINIT32
[3] Use UTFT myGLCD(ELEE32_REVA,A1,A2,A0,A3,A5); to initialize
[4] Use UTFT myGLCD(ELEE32_REVB,A1,A2,A0,99); to initialize
[5] UTFT does not make use of the on-board Font and Icon Flash chip.

If you are unsure which module you have you can try these model codes for the supported controllers instead:

| Controller | Model for UTFT() | Supported mode | | |
|---|---|---|---|---|
| | | 8bit | 16bit | Serial |
| HX8340-B(N) | HX8340B_S | | | ✓ |
| HX8340-B(T) | HX8340B_8 | ✓ | | |
| HX8347-A | HX8347A | | ✓ | |
| HX8352-A | HX8352A | | ✓ | |
| ILI9320 | ILI9320_8 | ✓ | | |
| | ILI9320_16 | | ✓ | |
| ILI9325C | ILI9325C | ✓ | | |
| ILI9325D | ILI9325D_8 | ✓ | | |
| | ILI9325D_16 | | ✓ | |
| | ILI9325D_16ALT[6] | | ✓ | |
| ILI9327 | ILI9327 | | ✓ | |
| ILI9341 | ILI9341_S4P[7] | | | ✓ |
| | ILI9341_S5P[8] | | | ✓ |
| ILI9481 | ILI9481 | | ✓ | |
| PCF8833 | PCF8833 | | | ✓ |
| S1D19122 | S1D19122 | | ✓ | |
| S6D0164 | S6D0164 | ✓ | | |
| S6D1121 | S6D1121_8 | ✓ | | |
| | S6D1121_16 | | ✓ | |
| SSD1289 | SSD1289 | | ✓ | |
| | SSD1289_8 | ✓ | | |
| | SSD1289LATCHED[9] | | LATCHED | |
| SSD1963 | SSD1963_480 | | ✓ | |
| | SSD1963_800 | | ✓ | |
| | SSD1963_800ALT[10] | | ✓ | |
| ST7735 | ST7735 | | | ✓ |
| ST7735S | ST7735S | | | ✓ |

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[6] Alternative initialization for some 2.8" display modules
[7] Use this for 4 Pin serial modules
[8] Use this for 5 Pin serial modules
[9] Currently only supported on 5v Arduino board, and not on chipKit or Arduino Due
[10] Alternative initialization for 7" displays