

UTFT

Arduino and chipKit Universal TFT display library

Supported display modules
& TFT Controllers



IMPORTANT:

Please note that any attempt to use this library with display modules that are not on this list is done at your own risk. Using this library with display modules not on this list may work just fine, but there is also a tiny, tiny risk that it may damage your display module and/or development board. **Consider yourself warned.**

Do not ask me if a display module that is not on this list will work with the library. As I have not tested it I simply do not know. You will just have to try for yourself (at your own risk).

If your **exact** display module/shield is not on this list you will have to direct any questions to your vendor. I cannot answer them.

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 (see the section marked **important** above).

| Supplier: ITead Studio | | | | | |
|--|------------------|-------------|-------------------------------|--------|--------|
| Website: http://imall.iteadstudio.com/ | | | | | |
| Module | Model for UTFT() | Controller | Notes | Module | Shield |
| ITDB02-1.8SP | ITDB18SP | ST7735 | 5V only ¹ | ✓ | |
| ITDB02-2.2 | ITDB22 | HX8340-B(T) | | ✓ | |
| ITDB02-2.4E | ITDB24E_8 | S6D1121 | 8bit mode | ✓ | |
| ITDB02-2.4E | ITDB24E_16 | S6D1121 | 16bit mode | ✓ | |
| ITDB02-2.8 | ITDB28 | ILI9325D | | ✓ | |
| ITDB02-3.2S | ITDB32S | SSD1289 | | ✓ | |
| ITDB02-3.2WD | ITDB32WD | HX8352-A | | ✓ | |
| ITDB02-4.3 | ITDB43 | SSD1963 | | ✓ | |
| ITDB02-5.0 | ITDB50 | SSD1963 | | ✓ | |
| ITDB02-2.2SP | ITDB22SP | HX8340-B(N) | Retired, 5V only ¹ | ✓ | |
| ITDB02-2.4 | ITDB24 | ILI9325C | Retired | ✓ | |
| ITDB02-2.4D | ITDB24D | ILI9325D | Retired | ✓ | |
| ITDB02-2.4DWOT | ITDB24DWOT | ILI9325D | Retired | ✓ | |
| ITDB02-2.5H | ITDB25H | SI19122 | Retired | ✓ | |
| ITDB02-3.2 | ITDB32 | HX8347-A | Retired | ✓ | |
| ITDB02-3.2WC | ITDB32WC | ILI9327 | Retired | ✓ | |

| Supplier: ElecFreaks | | | | | |
|--|------------------|------------|------------------------|--------|--------|
| Website: http://www.elec Freaks.com/store/ | | | | | |
| Module | Model for UTFT() | Controller | Notes | Module | Shield |
| TFT01-1.8SP | TFT01_18SP | ST7735S | May require ext. power | ✓ | |
| TFT1.8SP Shield | TFT18SHLD | ST7735 | | | ✓ |
| TFT01-2.2 | TFT01_22 | S6D0164 | | ✓ | |
| TFT01-2.2SP | TFT01_22SP | ILI9341 | May require ext. power | ✓ | |
| TFT2.2SP Shield | TFT22SHLD | ILI9341 | | | ✓ |
| TFT01-2.4 v1.2 | TFT01_24R2 | S6D1121 | | ✓ | |
| TFT01-2.4SP | TFT01_24SP | ILI9341 | | ✓ | |
| TFT01-2.8 | TFT01_28 | ILI9325D | | ✓ | |
| TFT01-3.2 | TFT01_32 | SSD1289 | | ✓ | |
| TFT01_3.2WD | TFT01_32WD | HX8352-A | | ✓ | |
| TFT01-4.3 | TFT01_43 | SSD1963 | | ✓ | |
| TFT01-5.0 | TFT01_50 | SSD1963 | | ✓ | |
| TFT01-7.0 | TFT01_70 | SSD1963 | | ✓ | |
| TFT01-2.4 | TFT01_24_8 | ILI9325D | 8bit model, Retired | ✓ | |
| TFT01-2.4 | TFT01_24_16 | ILI9325D | 16bit model, Retired | ✓ | |
| TFT01_3.2W | TFT01_32W | ILI9327 | Retired | ✓ | |

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

| Supplier: Electronics Lee | | | | | |
|--|--------------------------|------------|---|--------|--------|
| Website: http://stores.ebay.com/electronics-lee | | | | | |
| Module | Model for UTFT() | Controller | Notes | Module | Shield |
| 3.2" TFT LCD Arduino Shield - Revision A | ELEE32_REVA ² | SSD1289 | Uses 16bit latched mode ¹ Not supported on chipKit or Arduino Due | | ✓ |
| 3.2" TFT LCD Arduino Shield - Revision B | ELEE32_REVB | SSD1289 | 8bit mode ⁴ Not supported on chipKit or Arduino Due | | ✓ |

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

| Supplier: | | Coldtears Electronics | | | |
|--------------------------|------------------|---|---------------------------------|--------|--------|
| Website: | | http://stores.ebay.com/coldtears-electronics-store | | | |
| Module | Model for UTFT() | Controller | Notes | Module | Shield |
| 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" HR TFT LCD Module | CTE32HR | ILI9481 | Basic support only ⁵ | ✓ | |
| 3.2" Wide TFT LCD Module | CTE32W | HX8352-A | Basic support only ⁵ | ✓ | |
| 3.5" IPS TFT LCD Module | CTE35IPS | R61581 | Basic support only ⁵ | ✓ | |
| 4.0" TFT LCD Module | CTE40 | ILI9486 | Basic support only ⁵ | ✓ | |
| 5.0" TFT LCD Module | CTE50 | SSD1963 | Basic support only ⁵ | ✓ | |
| 5.0" CPLD TFT LCD Module | CTE50CPLD | CPLD ⁶ | | ✓ | |
| 7.0" TFT LCD Module | CTE70 | SSD1963 | Basic support only ⁵ | ✓ | |
| 7.0" CPLD TFT LCD Module | CTE70CPLD | CPLD ⁶ | | ✓ | |

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

| Supplier: | | ElecHouse | | | |
|--------------------------|------------------|---|-------|--------|--------|
| Website: | | http://www.elethouse.com/ | | | |
| Module | Model for UTFT() | Controller | Notes | Module | Shield |
| 5.0" TFT LCD Module | EHOUSE50 | SSD1963 | | ✓ | |
| 5.0" CPLD TFT LCD Module | EHOUSE50CPLD | CPLD ⁶ | | ✓ | |
| 7.0" TFT LCD Module | EHOUSE70 | SSD1963 | | ✓ | |

| Supplier: | | DisplayModule | | | |
|------------------|------------------|---|---------------------------|--------|--------|
| Website: | | http://www.displaymodule.com/ | | | |
| Module | Model for UTFT() | Controller | Notes | Module | Shield |
| DM-TFT18-101 | DMTFT18101 | HX8353C | | ✓ | |
| DM-TFT22-102 | DMTFT22102 | S6D0164 | | ✓ | |
| DM-TFT24-104 | DMTFT24104 | ILI9325D | | ✓ | |
| DM-TFT28-103 | DMTFT28103 | ILI9325D | | ✓ | |
| DM-TFT28-105 | DMTFT28105 | ILI9341 | Incompatible with chipKit | | ✓ |

⁵ UTFT does not make use of the on-board Font and Icon Flash chip.

⁶ CPLD modules are currently not compatible with chipKit.

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 |
| CPLD | CPLD | | ✓ | |
| HX8340-B(N) | HX8340B_S | | | ✓ |
| HX8340-B(T) | HX8340B_8 | ✓ | | |
| HX8347-A | HX8347A | | ✓ | |
| HX8352-A | HX8352A | | ✓ | |
| HX8353-C | HX8353C | ✓ | | |
| ILI9325C | ILI9325C | ✓ | | |
| ILI9325D | ILI9325D_8 | ✓ | | |
| | ILI9325D_16 | | ✓ | |
| | ILI9325D_16ALT ⁷ | | ✓ | |
| ILI9327 | ILI9327 | | ✓ | |
| ILI9341 | ILI9341_S4P ⁸ | | | ✓ |
| | ILI9341_S5P ⁹ | | | ✓ |
| ILI9481 | ILI9481 | | ✓ | |
| ILI9486 | ILI9486 | | ✓ | |
| PCF8833 | PCF8833 | | | ✓ |
| R61581 | R61581 | | ✓ | |
| S1D19122 | S1D19122 | | ✓ | |
| S6D0164 | S6D0164 | ✓ | | |
| S6D1121 | S6D1121_8 | ✓ | | |
| | S6D1121_16 | | ✓ | |
| SSD1289 | SSD1289 | | ✓ | |
| | SSD1289_8 | ✓ | | |
| | SSD1289LATCHED ¹⁰ | | LATCHED | |
| SSD1963 | SSD1963_480 | | ✓ | |
| | SSD1963_800 | | ✓ | |
| | SSD1963_800ALT ¹¹ | | ✓ | |
| ST7735 | ST7735 | | | ✓ |
| | ST7735_ALT ¹² | | | ✓ |
| ST7735S | ST7735S | | | ✓ |

⁷ Alternative initialization for some 2.8" display modules

⁸ Use this for 4 Pin serial modules

⁹ Use this for 5 Pin serial modules

¹⁰ Currently only supported on 5v Arduino board, and not on chipKit or Arduino Due

¹¹ Alternative initialization for 7" displays

¹² Alternative initialization for the ElecFreaks TFT1.8SP Shield