

## SPECIFICATIONS OF TFT-LCD MODULE

This specification applies to the TFT-Module series ITM1043. This series supports the 480(H) x 272(V) screen format and 65k colors. Furthermore the module support a lot of graphic commands, resistive touch screen, external keypad, backlight driving circuit and extended power supply.

The series ITM1043 is suited very well to realize own applications with very low expenditure in all current bus systems (8/16-bit, 3/4-wire SPI, I2C).

### Features

1. Display format: 480x272 dots matrix graphic
2. LCD controller: RA8875
3. Power supply: +3.3VDC
4. Display modes: TFT
5. Colors: 65k
6. Backlight: LED-white
7. Interfaces: 8/16-bit, SPI 3-wire/4-wire, IIC
8. General functions: internal Touch control (resistive)  
Internal Backlight control (dimming by PWM)  
Up to 20 key control (matrix)  
Graphic functions  
Internal FONT-ROM (ISO/IEC 8859-1...8859-4)
9. Options: Onboard DC/DC (max. 36VDC power supply)  
Touch Screen (resistive, projective capacitive)  
Up to 32MByte FLASH-memory on board  
Additional Font-IC  
Front bezel

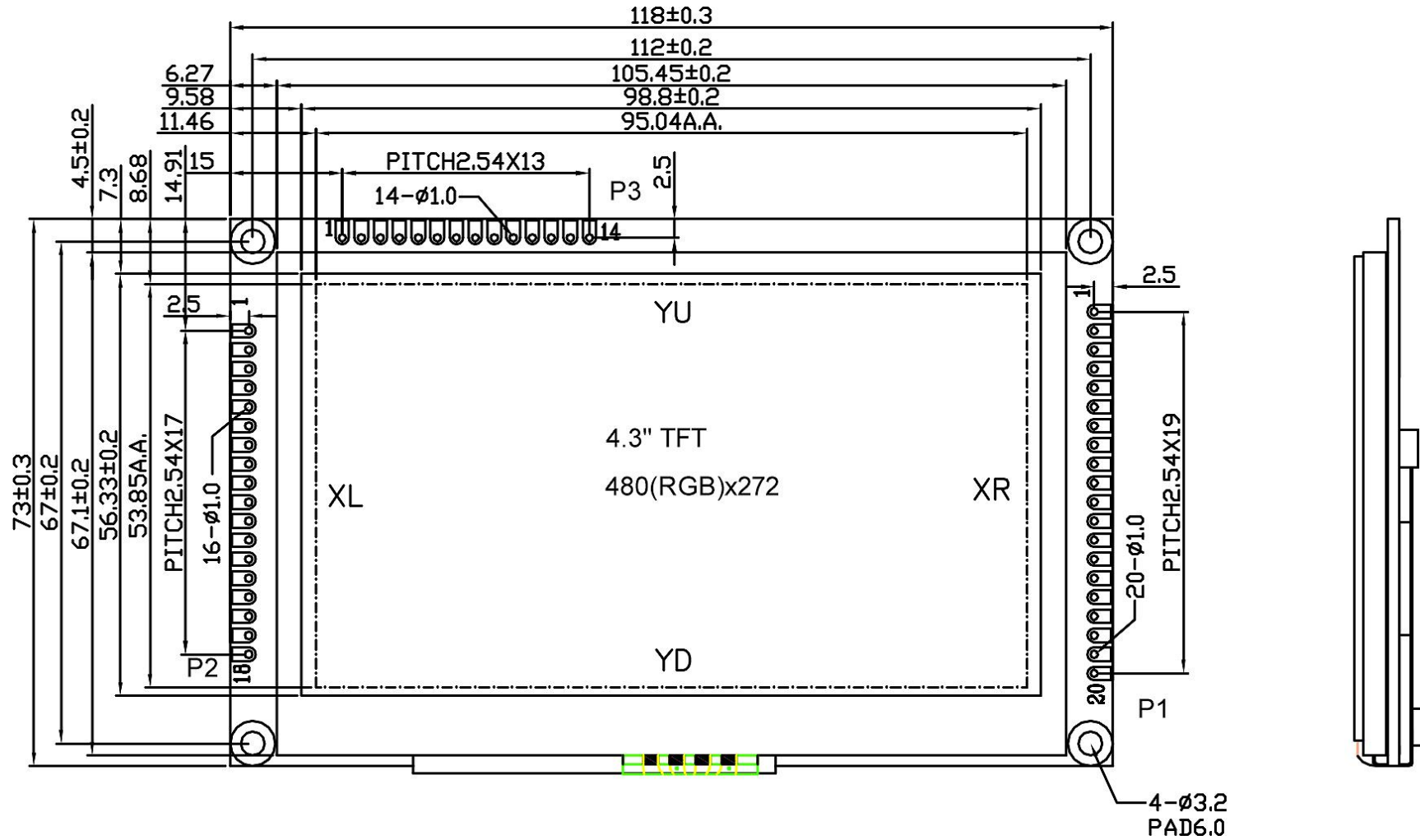
### Mechanical Specifications

<b>Module size</b>	118.0mm(L)*73.0mm(W)* Max10.5(H)mm
<b>Viewing area</b>	98.8mm(L)*56.3mm(W)
<b>Dot size (RGB)</b>	0.198mm(L)*0.198mm(W)
<b>Weight</b>	~95g

### Internal Functions (Standard – always included)

- WINDOW: Set active window, Floating window  
CURSOR: Graphic cursor, Blinking  
PATTERN: internal customizable 16x8x8 or 4x16x16 pattern  
SCROLL: Scroll window (horizontal or vertical), Layer mixed scroll, Buffer scroll  
DRAW: Pixel, Line, Rectangle, Rounded Rectangle, Triangle, Circle, Ellipse, Segment of Ellipse, Text, Image (from internal Flash)  
FILL: automatic filling of: Rectangle, rounded Rectangle, Triangle, Circle, Ellipse, Segment of Ellipse  
FONT: ISO/IEC 8859-1~4, 90degr fonts, additional FONT-IC  
BTE: Write, Move, Solid Fill, Pattern Fill, Transparent Pattern: move, write, fill, with ROP  
BTE (BTE = Block Transfer Engine)  
TOUCH: Resolution 10-bit for 4-Wire Touch Screens, Auto+ Manual Mode  
KEY: Matrix 4x5 and 1 Main Key, Multi Key (up to 3 pressed)  
DMA: Continuous and Block Mode  
PWM: 1<sup>st</sup> PWM is used for Backlight Adjustment, 2<sup>nd</sup> is available on interface  
SLEEP: Quitting from Sleep by Touch, Key or Register Setting

## Outline Dimensions



technical changes reserved

all dimensions in mm