HY28A-LCDA Pin Description

| **PIN NO** | **SYMBOL** | **DESCRIPTION** | **FUNCTION** |
| --- | --- | --- | --- |
| 1 | 5V\_IN | 5V power supply | When powered from 5V supply, Pin 20 & Pin 21 ( 3V3\_IN & 3V3\_OUT ) provide 3.3V output. |
| 2 | GND | Ground | Power Ground |
| 3 | D10 | Data bus | D10 |
| 4 | D11 | Data bus | D11 |
| 5 | D12 | Data bus | D12 |
| 6 | D13 | Data bus | D13 |
| 7 | D14 | Data bus | D14 |
| 8 | D15 | Data bus | D15 |
| 9 | D16 | Data bus | NC |
| 10 | D17 | Data bus | NC |
| 11 | CSA | LCD chip select | Low active |
| 12 | RS | Instruction/Data register selection | RS = 1 : Instruction Register RS = 0 : Data Register |
| 13 | WR | Write | WR = 0, RD = 1 |
| 14 | RD | Read | WR = 1, RD = 0 |
| 15 | RESET | Reset the controller chip | Low active |
| 16 | NC | Not connect | Not connect |
| 17 | NC | Not connect | Not connect |
| 18 | NC | Not connect | Not connect |
| 19 | GND | Ground | Power Ground |
| 20 | 3V3\_IN | 3.3V power supply | 3V3\_IN = 3V3OUT, When powered from 3.3V supply, 5V\_IN keep NC. |
| 21 | 3V3\_OUT | 3.3V power supply | 3V3\_IN = 3V3OUT, When powered from 3.3V supply, 5V\_IN keep NC. |
| 22 | GND | Ground | Power Ground |
| 23 | D0 | Data bus | D0 |
| 24 | D1 | Data bus | D1 |
| 25 | D2 | Data bus | D2 |
| 26 | D3 | Data bus | D3 |
| 27 | D4 | Data bus | D4 |
| 28 | D5 | Data bus | D5 |
| 29 | D6 | Data bus | D6 |
| 30 | D7 | Data bus | D7 |
| 31 | NC | Not connect | Not connect |
| 32 | TP\_CS | Touch screen chip select | Low active |
| 33 | TP\_SCK | Touch screen SPI clock | connects to SPI SCK |
| 34 | TP\_SDI | Touch screen data input | connects to SPI MOSI |
| 35 | TP\_SDO | Touch screen data output | connects to SPI MISO |
| 36 | TP\_IRQ | Touch screen interrupt | Low level while the touch screen detects pressing |
| 37 | NC | Not connect | Not connect |
| 38 | NC | Not connect | Not connect |
| 39 | GND | Ground | Power Ground |
| 40 | BL\_CTRL | Backlight brightness adjustment | Control the backlight brightness via PWM |