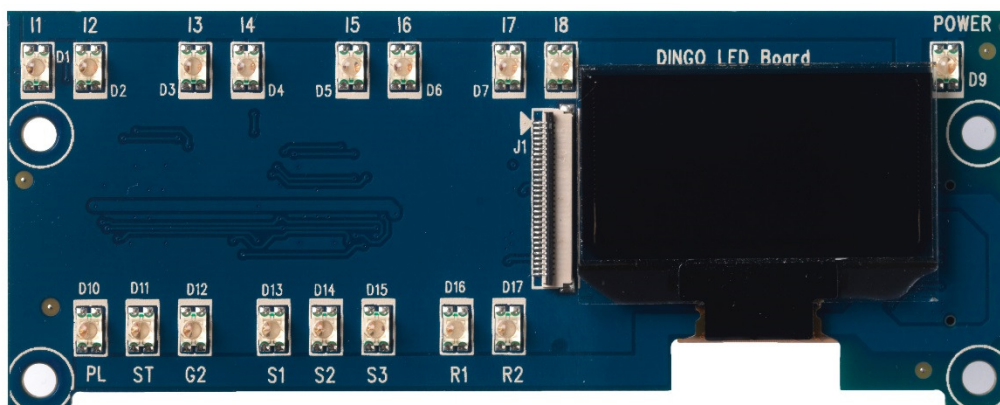


DINGO LED and LCD Display Board

Item specifications

Go-IoT Item Id:	DINGO-UB-LED_LCD-01
LEDs	17 Dual Red & Green LEDs
LED Driver	TLC59116FIRHBR http://www.ti.com/lit/ds/symlink/tlc59116f.pdf
LED Driver I2C Addresses	0x60 , 0x61
LCD	128 x 64 OLED 1,3" Graphic LCD
LCD Driver	SSD1306 https://cdn-shop.adafruit.com/datasheets/SSD1306.pdf
LCD Driver I2C Address	0x3C
I2C Ports	1
SPI Ports	1 (not used)
Expansion Connectors	1 – 30way header to Computer Board
DC Input	+3.3V @ 0.1A
Size (L x W x H)	97 x 36 x 7 mm
Temperature	-20 degree C to +85 degree C
Country//Region of Manufacture:	EU



30WAY GPIO TO COMPUTER BOARD

Pin	Port	Dir	Pull Up	Function	Description
1	+5V	OUT		POWER	+5V Output – 1A available
2	+5V	OUT		POWER	+5V Output – 1A available
3	+5V	OUT		POWER	+5V Output – 1A available
4	+5V	OUT		POWER	+5V Output – 1A available
5	I2C_SCL	OUT	YES	I2C0	I2C – Channel 0 Clock
6	SPI_MISO	IN		SPI	SPI Master In – Slave Out
7	I2C_SDA	BI DI	YES	I2C0	I2C – Channel 0 Data
8	SPI_MOSI	OUT		SPI	SPI Master Out – Slave In
9	I2C_SCL	OUT	YES	I2C1	I2C – Channel 1 Clock
10	SPI_CLK	OUT		SPI	SPI Clock – LCD I/F
11	I2C_SDA	IN	YES	I2C1	I2C – Channel 1 Data
12	SPI_SS0	OUT		SPI	SPI Slave Select 0
13	NC				Spare
14	SPI_SS1	OUT		SPI	SPI Slave Select 1
15	+3.3V	OUT		POWER	+3.3V Output – 300mA available
16	+3.3V	OUT		POWER	+3.3V Output – 300mA available
17	+3.3V	OUT		POWER	+3.3V Output – 300mA available
18	+3.3V	OUT		POWER	+3.3V Output – 300mA available
19	GPIO36	IN		INT	I2C INTERRUPT – I2C Switches
20	GPIO30	BI		GPIO	General Purpose – Not used
21	GPIO18	OUT		GPIO	LCD BACKLIGHT ON/OFF - PWM
22	GPIO31	OUT		GPIO	General Purpose
23	GPIO25	OUT		GPIO	SPI DATA/CMD for LCD
24	3.3V_RST	OUT		RESET	Output from 3.3V Supervisor
25	+12V	OUT		POWER	+12V DC OUT
26	+12V	OUT		POWER	+12V DC OUT
27	GND			POWER	GROUND
28	GND			POWER	GROUND
29	GND			POWER	GROUND
30	GND			POWER	GROUND

Blue Text is signals used on Module