INDUSTRIAL SHIELDS

HUMMTOUCH ANDROID

Hummtouch "Android" User Guide:

1 Contents

1 HUMMTOUCH ANDROID GUIDE
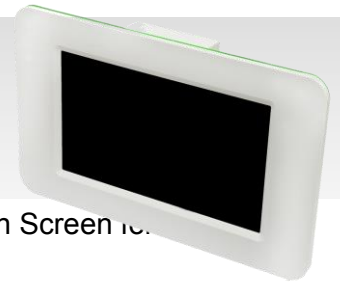
Panel PC based on HummingBoard, incorporating a 10.1" capacitive Touch Screen for industrial environment using Android Operating System.

PANEL PC

10,1"

LINUX

LINUX OPERATION SYSTEM

ARDUINO

Compatible with Arduino IDE

COM

Industrial Communications

| Panel PC HummTouch	
TFT	10.1" Capacitive LVDS, 315n, 170ºviewing angle
Format	16:9, 1366x768
SoC	i.MX6 Dual Lite
CPU	64 bit, 1GB @ 800Mbps
GPU	GC880
USB Ports	2x2.0 USB (1 is used for Touch)
Storage	SD/ MMC/ SDIO slot (1x 4Gb included)
Network connection	10/100 Ethernet (RJ-45)
Low level devices	8x GPIO, SPI, I2C, UART
energy consumption	1,25A – 30W
Power supply	12-24Vdc
Operative system	Android

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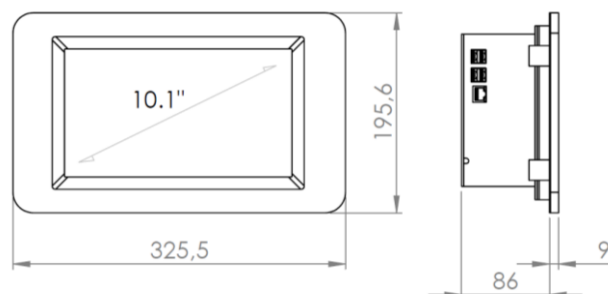
1.1 General Specifications:

Item		Touchberry PI 10.1"
Power supply voltage	DC power supply	12- 24Vdc
Power consumption	DC power supply	30VAC max.
External power supply	Power supply voltage	7 – 24.5 Vdc
	Power supply output capacity	1.2mA
Shock resistance		80m/s2 in the X, Y and Z direction 2 times each.
Ambient temperature (operating)		0º to 45ºC
Ambient humidity (operating)		10% to 90% (no condensation)
Ambient environment (operating)		With no corrosive gas
Ambient temperature (storage)		-20º to 60ºC
Power supply holding time		2ms min.
Weight		1.250 gr.

2 Power Supply

You need to connect 7 to 24 Vdc power supply.
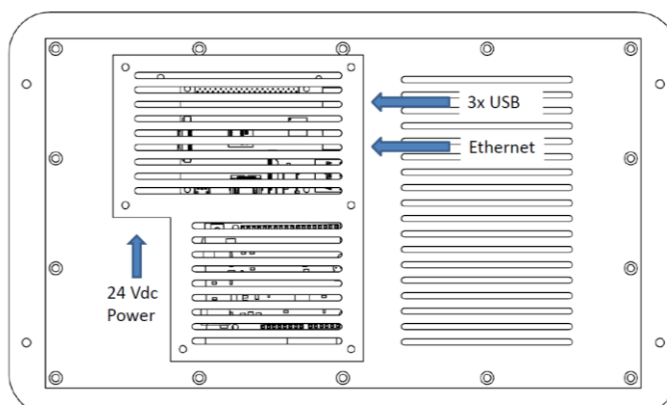
3 Screen configuration

Light: Operation indication led

On/Off: Select the screen operation mode: (You need to choose HDMI operation mode)

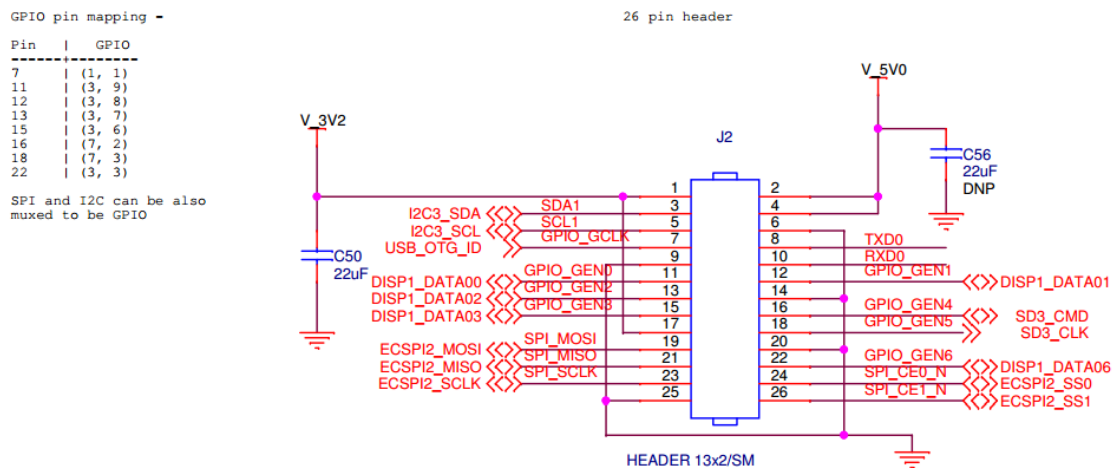**Menu**: choose and select the configuration mode

Down: move down on the configuration menu

Up: move up on the configuration menu

Exit: Exit the configuration menu

4 I/Os Pinout

Internal Hummingboard CN26:

External D-Sub 37 female connector Pinout:

GPIO	D-Sub 37	GPIO	D-Sub 37	GPIO	D-Sub 37	GPIO	D-Sub 37	GPIO	D-Sub 37
01	3Vdc	09	3Vdc	17	-	25	DISP1_DATA01 // GPIO_GEN1	33	-
02	I2C3_SDA // SDA1	10	ECSPI2_MOSI // SPI_MOSI	18	-	26	GND	34	-
03	I2C3_SCL//SCL1	11	ECSPI2_MISO // SPI_MISO	19	-	27	SD3_CMD // GPIO_GEN4	35	-
04	USB_OTG_ID // GPIO_GCLK	12	ECSPI2_SCLK // SPI_SCLK	20	5Vdc	28	SD3_CLK // SD3_CLK	36	-
05	GND	13	GND	21	5Vdc	29	GND	37	-
06	DISP1_DATA00 // GPIO_GEN0	14	-	22	GND	30	DISP1_DATA06 // GPIO_GEN6	38	-
07	DISP1_DATA02 // GPIO_GEN2	15	-	23	TXD0	31	DISP1_DATA06 // SPI_CE0_N	39	-
08	DISP1_DATA03 // GPIO_GEN3	16	-	24	RXD0	32	ECSPI2_SS1 // SPI_CE1_N	40	-

DC-37
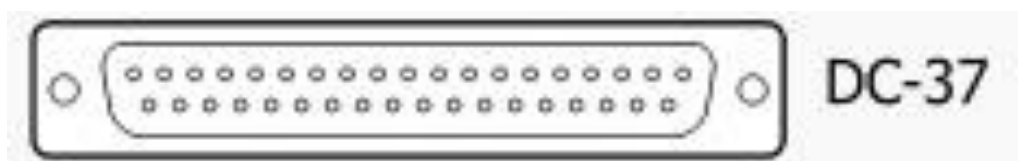
5   GPIO with Android:

See the link below to get information about how activate GPIOs.

http://android.serverbox.ch/?p=972

6   Hummtouch 10.1" Dimensions:
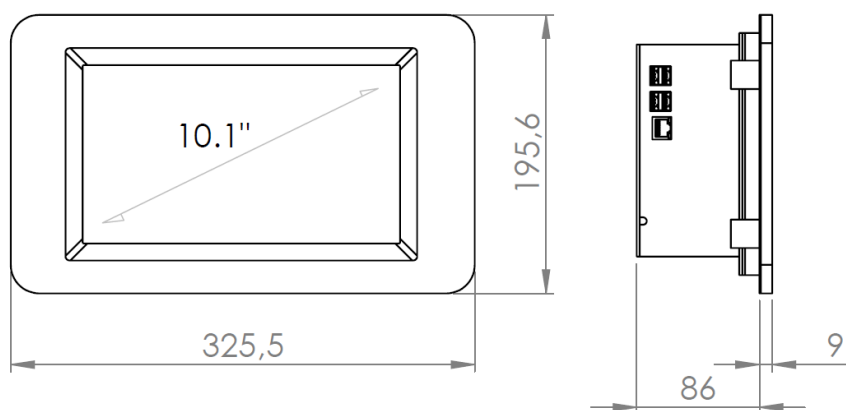
7   Mechanical mounting:
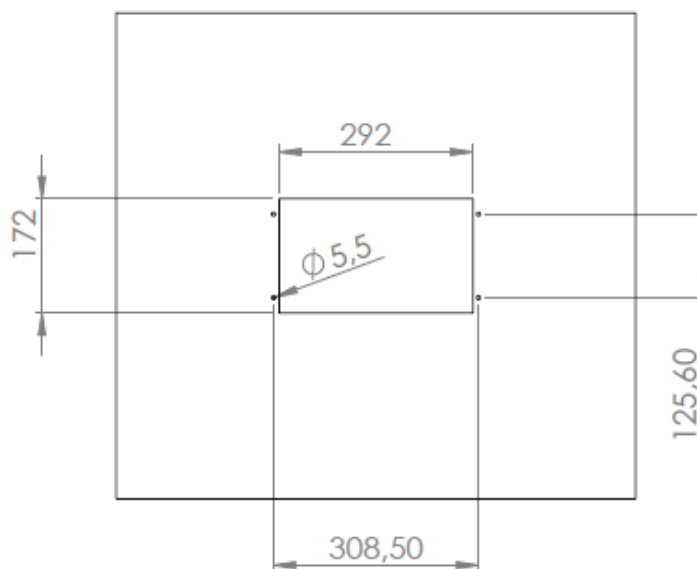
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