202243002 - EVOLUTION TO VERSION 3 OF 2PRM1085

RPI HAT

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Connect User push-pull button (SPA) (S1) to GPIO06 Raspberry

1 INTRODUCTION

The aim of this file is to describe the technical specifications of the evaluated project RPI HAT 2PRM1085 to version 3.

2 REFERENCES

File's name	Date	Place
Mail	**21/10/2022**	**…\Documents de Définition\Demande du Client**

3 GENERAL PRINCIPLE

In order to get a better performance of RPI HAT 2PRM1085 which integrates the module MS88SF2, some updates will be made on the pins of module MS88SF2.

The card shall have 2 push-pull buttons (User=S1, RESET=S2) and RGB LED / LEDs. The dimensions will be the same without any changes.

MS88SF2 Pins	nRF52840 Pin	Raspberry	Description
2	P1.13 (low frequency I/O only)		Red-LED (sink current 1.4 mA)
3	P1.15 (low frequency I/O only)		Not -used
4	P0.02 (low frequency I/O only)		Not -used
5	P0.29 (low frequency I/O only)		Blue-LED (sink current 0.35 mA)
6	P0.31 (low frequency I/O only)	GPIO05 (#29)	IRQ
7	P0.26	GPIO08 (#24)	SPI-CE
8	P0.04	GPIO27 (#13)	**UART-CTS**
9	P0.06	GPIO22 (#15)	**UART-RTS**
10	P0.08	GPIO02 (#03)	I2C-SDA
11	P1.09	GPIO03 (#05)	I2C-SCL
12	P0.12		Not -used
18	P0.13	GPIO11 (#23)	SPI-SCLK
19	P0.15	GPIO15 (#10)	**UART-RXD0 (Side Raspberry)/ UART-TXD0 (Side nRF52840)**
20	P0.18	GPIO13 (#33)	RESET
21	P0.20	GPIO10 (#19)	SPI-MOSI
22	P0.22	GPIO09 (#21)	SPI-MISO
23	P0.24	GPIO14 (#08)	**UART-TXD0 (Side Raspberry) UART-RXD0 (Side nRF52840)**
24	P1.00		SWO
25	Debug	GPIO17 (#11)	SWDIO
26	Debug	GPIO04 (#07)	SWDLCK
27	P0.09		Green-LED (sink current 0.4 mA)
28	P0.10	GPIO06 (#31)	User push-pull button (SPA) (S1)