BUS PLC

Регулятор напряжения DC24 / DC5

U1 64900001039 Fuse
+24V_CPU → power
+24V_fuse
J4 K7805-2000R3 VIN +VO GND → +5V_CPU
C2 22uF
C3 22uF
TP
GND_CPU

J5 K7803-2000R3 VIN +VO GND → +3.3V_CPU
C5 22uF
C6 22uF
GND_CPU

RS-485

U4 CA-IS3098W
+3.3V_BUS
+3.3V_CPU
C9 100nF
C10 10uF
C11 100nF
C12 10uF
VISO GNDB NC B A NC SEL GNDB
VDD GNDA RO RE DE DI NC GNDA
UART_RX
UART_RTS
UART_TX
B
A
GND_BUS
GND_CPU
J11: UART_RX 1, UART_RTS 2, UART_TX 3

Клеммник для подключения шины

+24V_BUS
+24V_CPU
J10
J3
PE
GND_BUS
GND_CPU

C1 4.7nF 2kV
PE
PE
GND_CPU

Плата светодиодов

SP1
+24V_fuse
+5V_CPU
+3.3V_CPU
J6 FFC 12pin 100mm
LED_0
LED_1
LED_2
UART_TX_LED
UART_RX_LED
J7
GND_CPU

4k7 Green
1k Green
680R Green
680R Red
680R Green
680R Green
680R Blue
680R Blue
PM_LED-10

Часы реального времени

+3.3V_CPU
Vbat
I2C1_SCL
I2C1_SDA
SCL SDA VCC VBAT 32KHZ RST INT/SQW GND
U6 DS3231
J1
GND_CPU

Luckfox Lyra Ultra

U7
+3.3V_CPU
UART_RX
UART_TX
1A 2A 1Y 2Y VCC GND
UART_RX_LED
UART_TX_LED
GND_CPU

+5V_CPU
U5
3V3 RM_IO0 RM_IO1 RM_IO2 GND RM_IO3 RM_IO4 RM_IO5 3V3 RM_IO6 RM_IO7 RM_IO8 GND
VSYS VSYS GND RM_IO22 RM_IO23 RM_IO14 GND RM_IO13 RM_IO12 GND RM_IO11 RM_IO10 RM_IO9
SPI_CS3 SPI_CS2 SPI_CS1 SPI_CS0 SPI_SCK SPI_MISO SPI_MOSI
VSYS GND 3V3 GND RM_IO24 RM_IO25 RM_IO26 RM_IO27 RM_IO28 RM_IO29 RM_IO30 RM_IO31 GND
1V8 GND ADC3 ADC2 GND RM_IO16 RM_IO17 RM_IO18 RM_IO20 GND
I2C0_SCL I2C0_SDA LED_2 LED_1 LED_0
UART_TX UART_RTS UART_RX I2C1_SCL I2C1_SDA
GND_CPU

Коннектор SPI

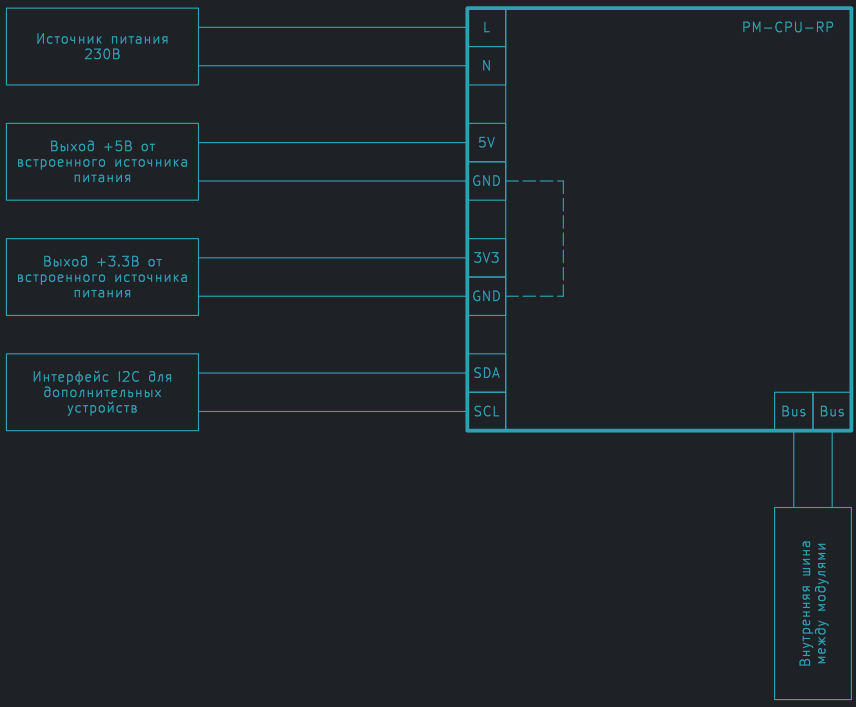
+3.3V_CPU
+5V_CPU
J9
SPI_MOSI SPI_MISO SPI_SCK SPI_CS0 SPI_CS1 SPI_CS2 SPI_CS3
J2
GND_CPU

Коннектор I2C

J8
I2C0_SDA I2C0_SCL
J12
GND_CPU

external_connection
@файл: external_connection.kicad_sch

Sheet: /	
File: PMCPU-LLU.kicad_sch	
Title: PMCPU-LLU v0.0.1	
Size: A2	Date:
KiCad E.D.A. 9.0.2	Rev: Id: 1/2



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Title: Схема внешних подключений

Size: A5	Date: 2024-07-11	**Rev:**
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