





XP4

Конт.	Цепь
1	GND
2	3V3
3	CS
4	MOSI
5	SCK
6	GEN

AXIS-A0

XP5

Конт.	Цепь
1	GND
2	3V3
3	CS
4	MOSI
5	SCK
6	GEN

AXIS-A1

XP6

Конт.	Цепь
1	GND
2	3V3
3	CS
4	MOSI
5	SCK
6	GEN

AXIS-A2

XP7

Конт.	Цепь
1	GND
2	3V3
3	CS
4	MOSI
5	SCK
6	GEN

AXIS-A3

XP8

Конт.	Цепь
1	GND
2	3V3
3	CS
4	MOSI
5	SCK
6	GEN

AXIS-A4

XP9

Конт.	Цепь
1	GND
2	3V3
3	CS
4	MOSI
5	SCK
6	MISO

SPI/A5

XP10

Конт.	Цепь
1	GND
2	3V3
3	CS
4	MOSI
5	SCK
6	MISO

SPI/A6

XP11

Конт.	Цепь
1	GND
2	3V3
3	ADC7
4	DATA
5	SCK
6	LATCH

SHIFT REG/A7

XP12

Конт.	Цепь
1	B8
2	B9
3	B6/GEN_TLE
4	B7
5	B4/SPI_MISO/PWM
6	B5/SPI_MOSI
7	C15
8	B3/SPI_SCK
9	C13/LED
10	C14
11	B1/PWM
12	B0/PWM
13	B11/I2C_SCL
14	B10/I2C_SDA
15	B13
16	B12
17	B15
18	B14
19	A15
20	A10
21	A9/FAST_ENC
22	A8/FAST_ENC/PWM

XP13

Конт.	Цепь
1	3V3
2	GND
3	3V3
4	GND
5	3V3
6	GND

Инв. № подл.	Подп. и дата
Инв. № докл.	Подп. и дата
Взам. инв. №	Инв. № докл.

Изм.	Лист	№ докум.	Подп.	Дата
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Item #	Designator	Description	Comment	Quantity
1	C1	4700pF ± 5%, 250V, X7R, SMD 0805	4.7nF 250V	1
2	C2, C5, C6, C7, C8, C9, C12	0.1uF ± 10%, 25V, X7R, SMD 0603	100nF	7
3	C3, C4, C11	1uF ± 10%, 16V, X7R, SMD 0603	1uF	3
4	C10, C13, C14	22nF ± 5%, 50V, NPO, SMD 0603	22pF	3
5	DA1	ESR protection IC, USBLC6-2P6, SOT666	USBLC6-2P6	1
6	DA2	LDO voltage regulator, LP5907MFX-3.3, SOT23-5	LP5907MFX-3.3	1
7	DD1	MCU, STM32F103C8T6, LQFP48	STM32F103C8T6	1
8	HL1	KP-1608SRC, LED red, SMD 0603	KP-1608SRC	1
9	HL2	KP-1608SGC, LED green, SMD 0603	KP-1608SGC	1
10	L1	BLM18HG102SN1D, SMD 0603	Ferrite bead, BLM18HG102SN1D	1
11	R1	1M ± 1%, SMD 0603	1M	1
12	R2	1K5 ± 1%, SMD 0603	1K5	1
13	R3, R4	27R ± 1%, SMD 0603	27R	2
14	R5, R6, R10, R11	4K7 ± 1%, SMD 0603	4K7	4
15	R7, R8	470R ± 1%, SMD 0603	470R	2
16	R9	1K ± 1%, SMD 0603	1K	1
17	SB1	DTS-32, 3.5x6mm, THT	Tact Switch 3.5x6mm THT	1
18	XP1	PH2.0-5P	USB PH2.0-5P	1
19	XP2	PLS-5	PROG	1
20	XP3	PLD-4	BOOT	1
21	XP4	PH2.0-6P	AXIS-A0	1
22	XP5	PH2.0-6P	AXIS-A1	1
23	XP6	PH2.0-6P	AXIS-A2	1
24	XP7	PH2.0-6P	AXIS-A3	1
25	XP8	PH2.0-6P	AXIS-A4	1
26	XP9	PH2.0-6P	SPI/A5	1
27	XP10	PH2.0-6P	SPI/A6	1
28	XP11	PH2.0-6P	SHIFT REG/A7	1
29	XP12	PLD-22	GPIO	1
30	XP13	PLD-6	SUPPLY	1
31	XS1	DS1099, USB Type B Socket	USB Type B	1
32	ZQ1	Crystal Resonator, 8MHz, KX-7T	KX-7T 8MHz	1