Pinouts:

IMU:
SCL: PB6
SDA: PB7

Serial 1:
rj45 pin 2: PA9
rj45 pin 4: PA10

Serial 3:
rj45 pin 1: PB10
rj45 pin3: PB11

Encoder x:
rj45 pin 2: PA0
rj45 pin 4: PA1

Encoder y:
rj45 pin 6: PA2
rj45 pin 8: PA3

IMU_GY521

3V3@1	VCC	VCC	INT	INT
GND@1	GND	GND	ADO	ADO
PB_6	SCL	SCL	XDA	XDA
PB_7	SDA	SDA	XCL	XCL

ZX1

ZIF_401280

PB_12	1	40	GND@3
PB_13	2	39	GND@2
PB_14	3	38	3V3@2
PB_15	4	37	RESET
PA_8	5	36	PB_11
PA_9	6	35	PB_10
PA_10	7	34	PB_1
PA_11	8	33	PB_0
PA_12	9	32	PA_7
PA_15	10	31	PA_6
PB_3	11	30	PA_5
PB_4	12	29	PA_4
PB_5	13	28	PA_3
PB_6	14	27	PA_2
PB_7	15	26	PA_1
PB_8	16	25	PA_0
PB_9	17	24	PC_15
5V	18	23	PC_14
GND@1	19	22	PC_13
3V3@1	20	21	VB

ENC_X_Y

RJ45

5V	1	TD+	LA	9
			LC	10
PA_1	4	CTT		
PA_0	2	TD-	RA	12
			RC	11
5V	3	RD+		
GND@3	5	CTR		
PA_2	6	RD-		
GND@3	7	CG1	S1	S1
PA_3	8	CG2	S2	S2

COM_1_3

RJ45

PB_10	1	TD+	LA	9
			LC	10
PA_10	4	CTT		
PA_9	2	TD-	RA	12
			RC	11
PB_11	3	RD+		
5V	5	CTR		
5V	6	RD-		
GND@1	7	CG1	S1	S1
GND@1	8	CG2	S2	S2

POWER

RJ45

RESET	1	TD+	LA	9
			LC	10
GND@3	4	CTT		
RESET	2	TD-	RA	12
			RC	11
GND@3	3	RD+		
GND@3	5	CTR		
5V	6	RD-		
5V	7	CG1	S1	S1
5V	8	CG2	S2	S2

RA1
RA1
GND@3
GND@3

R1
150R

5V