## Yellow pin mappings

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	STM32 Pin #		Function	Description
CN7-1	51	PC10	SPI3_SCK SPI3_MISO	SPI SCK
CN7-2 CN7-3	52 53	PC11 PC12	SPI3_IVIISU SPI3_MOSI	SPI MISO
CN7-3	54	PD2	PD2	SPI MOSI SPI CS XM (IMU)
CN7-4	19	VDD	PDZ	3FI C3 XIVI (IIVIU)
CN7-6	19	E5V		
CN7-7	60	BOOT0	1	
CN7-8	00	GND		
CN7-9		NC	1	
CN7-10		NC		
CN7-11		NC		
CN7-12		IOREF		
CN7-13	46	PA13		SWDIO-JTMS
CN7-14	7	RESET		
CN7-15	49	PA14		SWCLK-JTCK
CN7-16		3V3		
CN7-17	50	PA15	PA15	SPI CS G (IMU)
CN7-18		5V		
CN7-19		GND		
CN7-20		GND		
CN7-21	59	PB7	TIM4_CH2	Encoder B Left
CN7-22		GND		
CN7-23	2	PC13	PC13	Button
CN7-24		VIN		
CN7-25	3	PC14	PC14	Switch 0
CN7-26		NC		
CN7-27	4	PC15	PC15	Switch 1
CN7-28	14	PA0	UART4_TX	Lidar TX
CN7-29	5	PH0		
CN7-30	15	PA1	UART4_RX	Lidar RX
CN7-31	6	PH1	PH1	Multiplexer 1
CN7-32	20	PA4		
CN7-33	1	VBAT		
CN7-34	26	PB0	200	
CN7-35	10	PC2	PC2	Multiplexer 2
CN7-36	9	PC1	PC1	Enable IR Sensors
CN7-37	11	PC3	PC3	Multiplexer 3
CN7-38	8	PC0	PC0	LED 4
CN10 1	40	PC9	PC9	LEDE
CN10-1 CN10-2	40 39	PC9 PC8	PC9 PC8	LED 5 LED 0
CN10-2 CN10-3	61	PB8	PCo	LEDU
CN10-3 CN10-4	37	PC6	PC6	LED 1
CN10-4 CN10-5	62	PB9	PCO	LEDI
CN10-6	25	PC5	UART3 RX	WLAN RX
CN10-7	13	AVDD	GYRTTS_ROC	WE HV
CN10-8	10	U5V		
CN10-9		GND		
CN10-10		NC		
CN10-11	21	PA5	PA5	LED
CN10-12	45	PA12	CAN1_TX	CAN TX
CN10-13	22	PA6	TIM3_CH1	Encoder A Right
CN10-14	44	PA11	CAN1_RX	CAN RX
CN10-15	23	PA7	PA7	LED 3
CN10-16	33	PB12	PB12	LED 2
CN10-17	58	PB6	TIM4_CH1	Encoder A Left
CN10-18		NC		
CN10-19	38	PC7	TIM3_CH2	Encoder B Right
CN10-20		GND		
CN10-21	42	PA9	TIM1_CH2	PWM Motor Right
CN10-22	28	PB2	PB2	Enable Motor Driver
CN10-23	41	PA8	TIM1_CH1	PWM Motor Left
CN10-24	27	PB1	ADC12_IN9	Analog In (IR Sensor)
CN10-25	29	PB10	UART3_TX	WLAN TX
CN10-26	36	PB15	PB15	Motor Driver Warning
CN10-27	56	PB4	PB4	WLAN Modes1
CN10-28	35	PB14	PB14	Motor Driver Fault
CN10-29	57	PB5	PB5	WLAN Modes2
CN10-30	34	PB13	DD 3	14/1 AN D
CN10-31	55	PB3	PB3	WLAN Reset
CN10-32	**	AGND	TIN 46 CUIT	Lists Black
CN10-33	43	PA10	TIM1_CH3	Lidar PWM
CN10-34	24	PC4	LIADTO TV	CT II I C C I I C
		PA2	UART2 TX	ST Link Serial Port
CN10-35	16		OTHER TAX	31 LIIK Seriai Port
CN10-35 CN10-36		NC		
CN10-35	16		UART2_RX	ST Link Serial Port