

Select STM32F103RETx in arduino					
GD32F303RET6	Function	Connection	Notes	Investigate Further?	
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21	PA5	USR_LED			
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63	GND				
64	3V3				

6EDL7141	Function	Connection	Notes	Investigate Further?
1	sNCS	GD32 Pin 33	9.66k pullup	
2	SCLK	GD32 Pin 34		
3	SDO	GD32 Pin 35		
4	SDI	GD32 Pin 36		
5	nFault	GD32 Pin 45		
6	INHA	GD32 Pin 41	Labeled C on PCB	
7	INLA	NC	Internal 200k pulldown	
8	INHB	GD32 Pin 42	Labeled B on PCB	
9	INLB	NC	Internal 200k pulldown	
10	INHC	GD32 Pin 43	Labeled A on PCB	
11	INLC	NC	Internal 200k pulldown	
12	CS_GAIN/AZ	GD32 Pin 37	9.92k pullup, weird resistor arrangement nearby	?
13	VSENSE/nBRAKE	10k pulldown (5V DVDD Selection)		
14	DVDD	Connected to VSENSE through 1k + diode	Powers 3.3V LDO through 4R7	
15	PVDD	+V input		
16	PH	Inductor		
17	PGND	-V input		
18	Vddb	Buck Out	Doesn't appear to power anything externally	
19	CP1L	Charge Pump Cap		
20	CP1H	Charge Pump Cap		
21	CP2L	Charge Pump Cap		
22	CP2H	Charge Pump Cap		
23	VCCLS	Charge Pump Out Low		
24	VCCHS	Charge Pump Out High		
25	GHC	Gate High FET C		
26	SHC	Source High FET C		
27	NC			
28	GLC	Gate Low FET C		
29	SLC	Source Low FET C	High Side of Current Shunt C	
30	CSNC	Current Sense Amp Negative C	Low Side of Current Shunt C	
31	CSNB	Current Sense Amp Negative B	Low Side of Current Shunt B	
32	SLB	Source Low FET B	High Side of Current Shunt B	
33	GLB	Gate Low FET B		
34	NC			
35	SHB	Source High FET B		
36	GHB	Gate High FET B		
37	GHA	Gate High FET A		
38	SHA	Source High FET A		
39	NC			
40	GLA	Gate Low FET A		
41	SLA	Source Low FET A		
42	CSNA	GND (Not used)		
43	CSOA	GND?? (Not used, should be left disconnected?)		
44	CSOB	GD32 Pin 9		
45	CSOC	GD32 Pin 8		
46	VREF	NC (Not used)		
47	CE	+V through resistor divider (unclear exactly how tho)	Unsure where rest of resistor divider is	?
48	EN_DRV	GD32 Pin 44		

AS5047P	Function	Connection	Notes	Investigate Further?
	1 CSn	GD32 Pin 50		
	2 CLK	GD32 Pin 51		
	3 MISO	GD32 Pin 52		
	4 MOSI	GD32 Pin 53		
	5 Test	GND		
	6 B	NC		
	7 A	NC		
	8 W/PWM	NC		
	9 V	NC		
	10 U	NC		
	11 VDD	3V3 LDO		
	12 VDD3V3	3V3 LDO		?
	13 GND	GND		
	14 I	NC		