J8 Header 16
PE5 PE4 PE3 PE2 PE1 PE0 SWDIO SWDCL PD2 PD3 PD5 PD7
GND VCCIO GND

S1 SW-PB PE4
S2 SW-PB PE5
GND GND

VCCIO J1 SWDIO SWDCL JTAG GND
VCCIO J7 PE2 RX PE1 TX GND

VIN R20 100K VIN_SCL C14 1000 pf R26 4.3K

J9 Header 16
1 VIN_SCL
2 PC3
3 PC2
4 V3P3
5 GND
6 AIO10_N
7 AIO10_P
8 nBRAKE
9 AIO3
10 nDRVDIS
11 AIO5
12 AIO6
13 UVDC
14 VVDC
15 WVDC
16 V5V

VCC18 C35 2.2 uF 16V
C1 4.7 uF 10V VCCIO
GND

U1 PAC52711

49	GND				
1	PC4	VIN_SCL			
2	PC3	PC3			
3	PC2	PC2			
4	VCC33	V3P3			
5	AIO0	AIO10_N			
6	AIO1	AIO10_P			
7	nBRK	nBRAKE			
8	AIO3	AIO3			
9	nDRVDIS	nDRVDIS			
10	AIO5	AIO5			
11	AIO6	AIO6			
12	AIO7	UVDC			
13	AIO8	VVDC			
14	AIO9	WVDC			
15	VSYS				
16	REGO	REGO			
17	CSM	CSM			
18	VP	VP			
19	VHM	VHM			
20	DRM	DRM			
21	DRL0	UL			
22	DRL1	VL			
23	DRL2	WL			
24	DRS3	DRS3			
48	VCC18				
47	VSS				
46	VCCIO				
45	PE5	PE5			
44	PE4	PE4			
43	PE3	PE3			
42	PE2	PE2			
41	PE1	PE1			
40	PE0	PE0			
39	PD0	SWDIO			
38	PD1	SWDCL			
37	PD2	PD2			
36	PD3	PD3			
35	PD5	PD5			
34	PD7	PD7			
33	VBUS	VBUS			
32	DRB5	WB			
31	DRH5	WH			
30	DRS5	DRS5			
29	DRB4	VB			
28	DRH4	VH			
27	DRS4	DRS4			
26	DRB3	UB			
25	DRH3	UH			

VIN R21 1 C2 10000 pf GND
GND C5 2.2 uF 16V V3P3

VCCIO J12 HALL_U HALL_V HALL_W Header 5 GND
VCCIO J10 HALL_U HALL_V HALL_W C30 0.1 uF Header 5 GND
VIN C18 220 uF 80V GND
VIN C24 220 uF 80V GND

VP D1 UB 25V C3 1 uF D2 DRS3 GND
UH D10 75V R2 10 UHG
UL D11 75V R3 10 ULG
U2 U3 AON6268
R1 5.1 U_OUT J2 UOUT
AIO10 4.7 uF C9 80V VIN

VP D3 VB 25V C6 1 uF D4 DRS4 GND
VH D12 75V R10 10 VHG
VL D13 75V R11 10 VLG
U4 U5 AON6268
R9 5.1 V_OUT J3 VOUT
AIO10 4.7 uF C10 80V VIN

VP D5 WB 25V C8 1 uF D6 DRS5 GND
WH D14 75V R16 10 WHG
WL D15 75V R17 10 WLG
U6 U7 AON6268
R15 5.1 W_OUT J4 WOUT
AIO10 4.7 uF C17 80V VIN

JMP4 JMP1X2 SHNT4 3 pin Jumper Shunt
nBRAKE 2 1 PD5

VCCIO R8 4.3K nBRAKE C15 1000 pf GND
VCCIO R13 4.3K nDRVDIS C16 1000 pf GND

S3 SW-PB nDRVDIS GND

V5V R7 0 VCCIO D16 5V GND
V5V R32 4.7K

REGO R12 51 C7 4.7 uF 10V V5V GND
VP
VHM DRM

VP J11 CSM DRM GND

PD2 PWMB0 JMP1 JMP1X3 SHNT1 3 pin Jumper Shunt TP15 DAC3
R22 4.3K C26 0.1 uF R44 100 HALL_U C25 1000 pf GND

PD3 PWMB1 JMP2 JMP1X3 SHNT2 3 pin Jumper Shunt TP14 DAC2
R30 4.3K C27 0.1 uF R45 100 HALL_V C28 1000 pf GND

PD7 PWMD0 JMP3 JMP1X3 SHNT3 3 pin Jumper Shunt TP5 DAC1
R31 4.3K C31 0.1 uF R46 100 HALL_W C29 1000 pf GND

SHNT Default Position JMP-1:2

AIO10_P R4 100 AIO10
C4 3300 pF R5 0.01
AIO10_N R6 100 GND

UVDC R23 100K C11 1000 pf
VVDC R24 100K C13 1000 pf
WVDC R25 100K C12 1000 pf
U_OUT R27 4.3K
V_OUT R28 4.3K
W_OUT R29 4.3K

VIN J5 R34 0.5 R33 0 C19 1 uF 100V
C20 10 uF 63V C21 1 uF 100V C22 0.1 uF 100V GND
J6 GND
Q1 BCP56 DRM R36 100 GND
VHM

VIN R35 4.7K D7 VIN GND
D8 SMD16PL-TP
L1 Inductor 150uH R37 0.33 CSM
D9 SMD16PL-TP GND
VP C23 10uF 25V GND

UL TP8 VL TP9 WL TP10 GND TP1 GND TP2 GND TP3 GND TP4
UH TP11 VH TP12 WH TP13 VIN TP6 VIN TP7

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	PAC52711EVK1		
Size C	FCSM No.	DWG No.	Rev A
Scale	12/11/2023	Sheet 1/1	