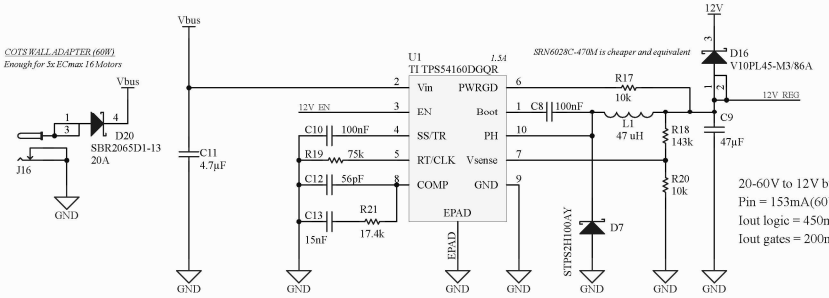
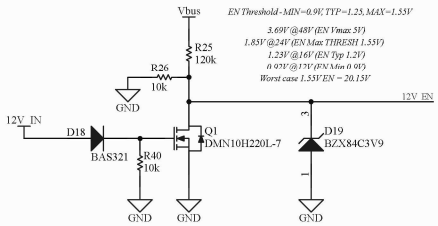
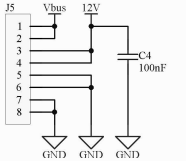
VBus and 12V Input (Molex Mini-fit)



20-60V to 12V buck, 85% eff
Pin = 153mA(60V) - 459mA(20V) = 9.176W
Iout logic = 450mA, Pout logic = 5.4W
Iout gates = 200mA, Pout gates = 2.4W

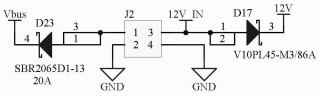


VBus and 12V Input (Screw Terminal)

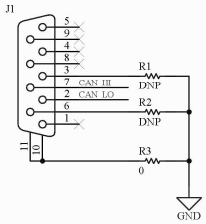


0395443006 6 Pin rather than 8 is $1.50 less each x3 per board

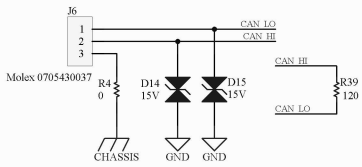
VBus and 12V Input (Molex Mini-fit)

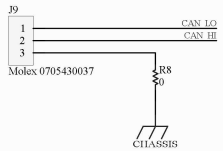


CAN Connector (D-Sub)

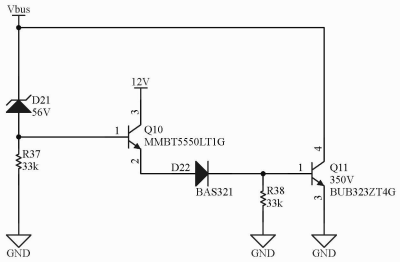


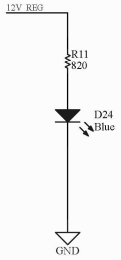
CAN Connector (Molex SL)

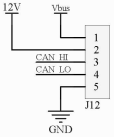




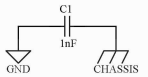
Analog Overvoltage

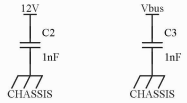


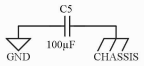




Chassis Connections







Original:	B. Noack	1/22/2024	
Revised:	B. Noack	10/3/2024	
EE Check:	C. Valle	10/3/2024	
ME Check:	A. Yen	10/3/2024	

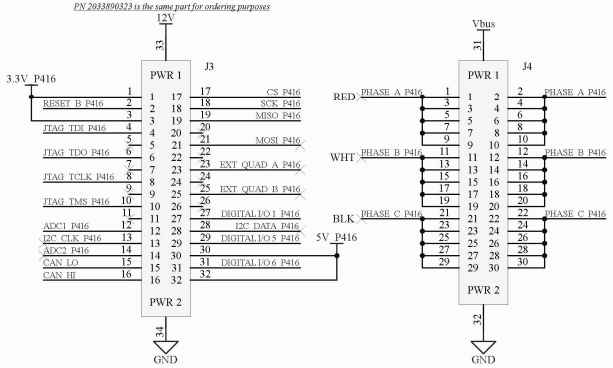
Title: *P4 Dev Board*
Size: Tabloid | Number: B5709 | Revision: AA
Date: 4/9/2025 | CR: N/A | Sheet 1 of 3
File: C:\Users\Public\Documents\Altium\B5709 P4 Dev Kit\B5709 P4 Dev Kit.SchDoc

Barrett Technology, LLC
320 Nevada St, Newton MA 02460 U.S.A.
mfg@barrett.com Tel +1-617-252-9000

P4-16 Connection

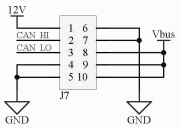
Signal Connector

PN 2033890323 is the same part for ordering purposes

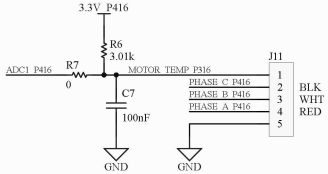


Power Connector

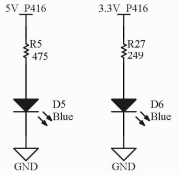
P4-16 Daisy Chain Connector



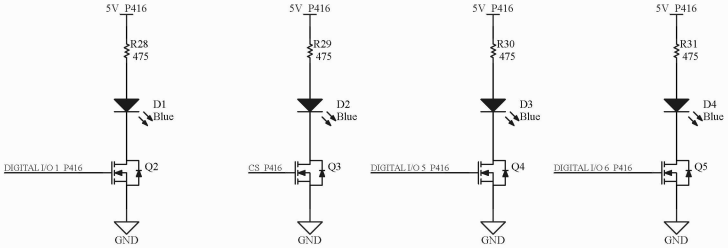
Burt Core Motor Connector



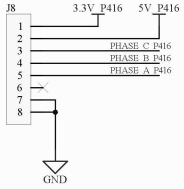
Input Voltage Testing



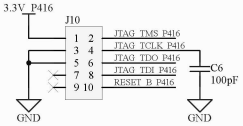
I/O Pins Testing



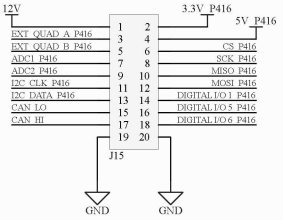
Phase Input



JTAG Input



Breakout Header



Original:	B. Noack	1/22/2024
Revised:	B. Noack	10/3/2024
EE Check:	C. Valle	10/3/2024
ME Check:	A. Yen	10/3/2024

Title: *P4 Dev Board*

Size: Tabloid | Number: B5709 | Revision: AA

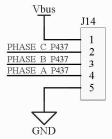
Date: 4/9/2025 | CR: N/A | Sheet 2 of 3

File: C:\Users\Public\Documents\Altium\B5709 P4 Dev Kit\P4-16 Connection.SchDoc

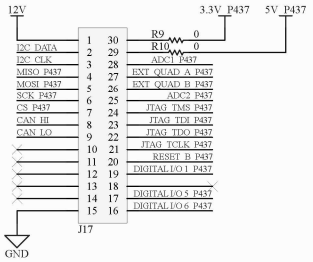
Barrett Technology, LLC
320 Nevada St, Newton MA 02460 U.S.A.
mfg@barrett.com Tel +1-617-252-9000

P3-35 Connection

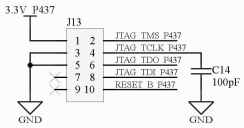
PWR & Phase Connector



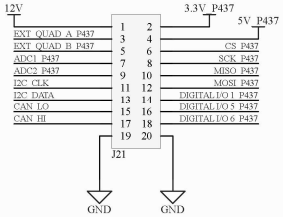
Signal Connector



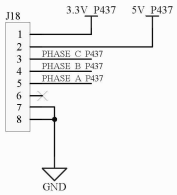
JTAG Input



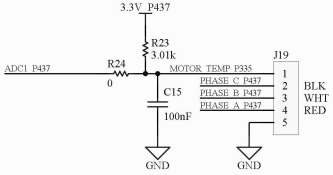
Breakout Header



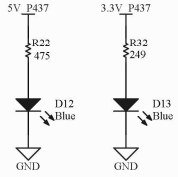
Phase Input



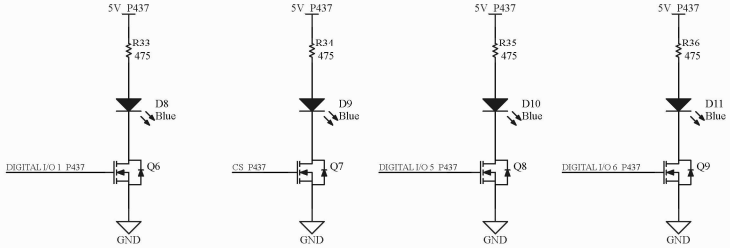
Burt Core Motor Connector



Input Voltage Testing



I/O Pins Testing



Original:	B. Noack	1/22/2024
Revised:	B. Noack	10/3/2024
EE Check:	C. Valle	10/3/2024
ME Check:	A. Yen	10/3/2024

Title: *P4 Dev Board*

Size: Tabloid | Number: B5709 | Revision: AA

Date: 4/9/2025 | CR: N/A | Sheet 3 of 3

File: C:\Users\Public\Documents\Altium\B5709 P4 Dev Kit\P4-37 Connection.SchDoc

Barrett Technology, LLC
320 Nevada St, Newton MA 02460 U.S.A.
mfg@barrett.com Tel +1-617-252-9000