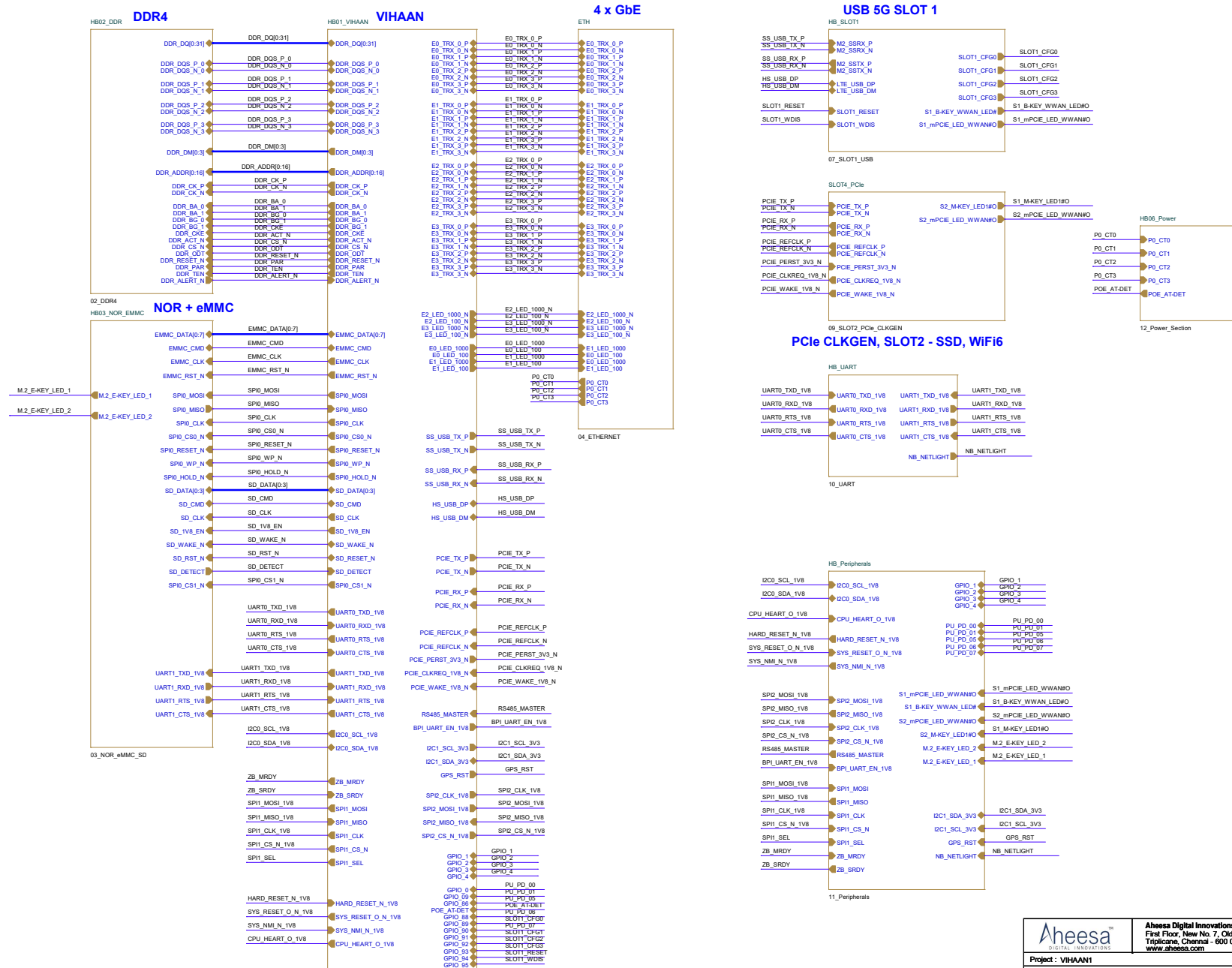


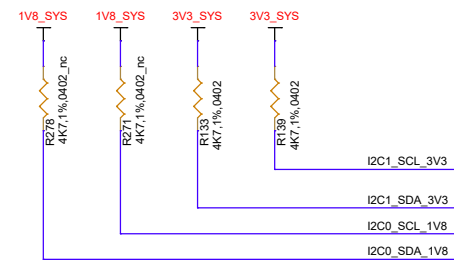
VIHAAN IoT Gateway



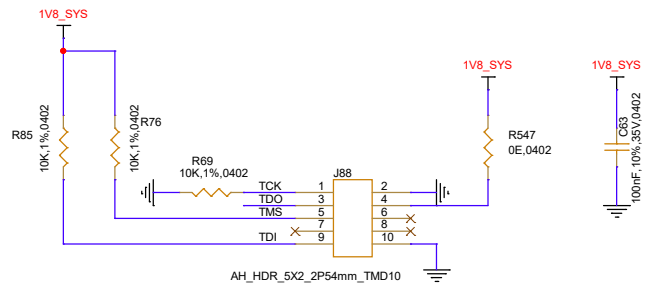
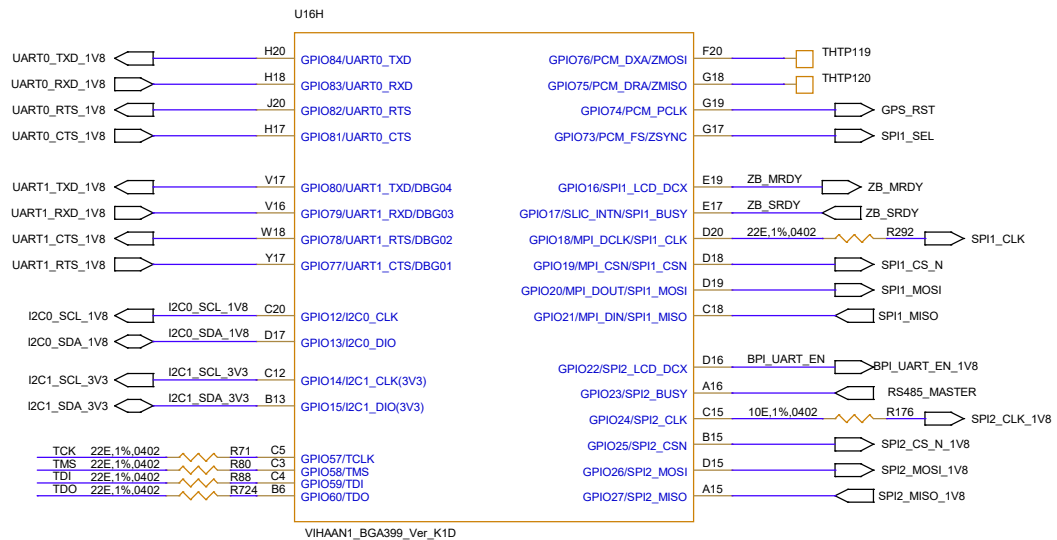
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VIHAAN - UART, I2C, SSP/MPI, PCM/ZSI & JTAG Interface



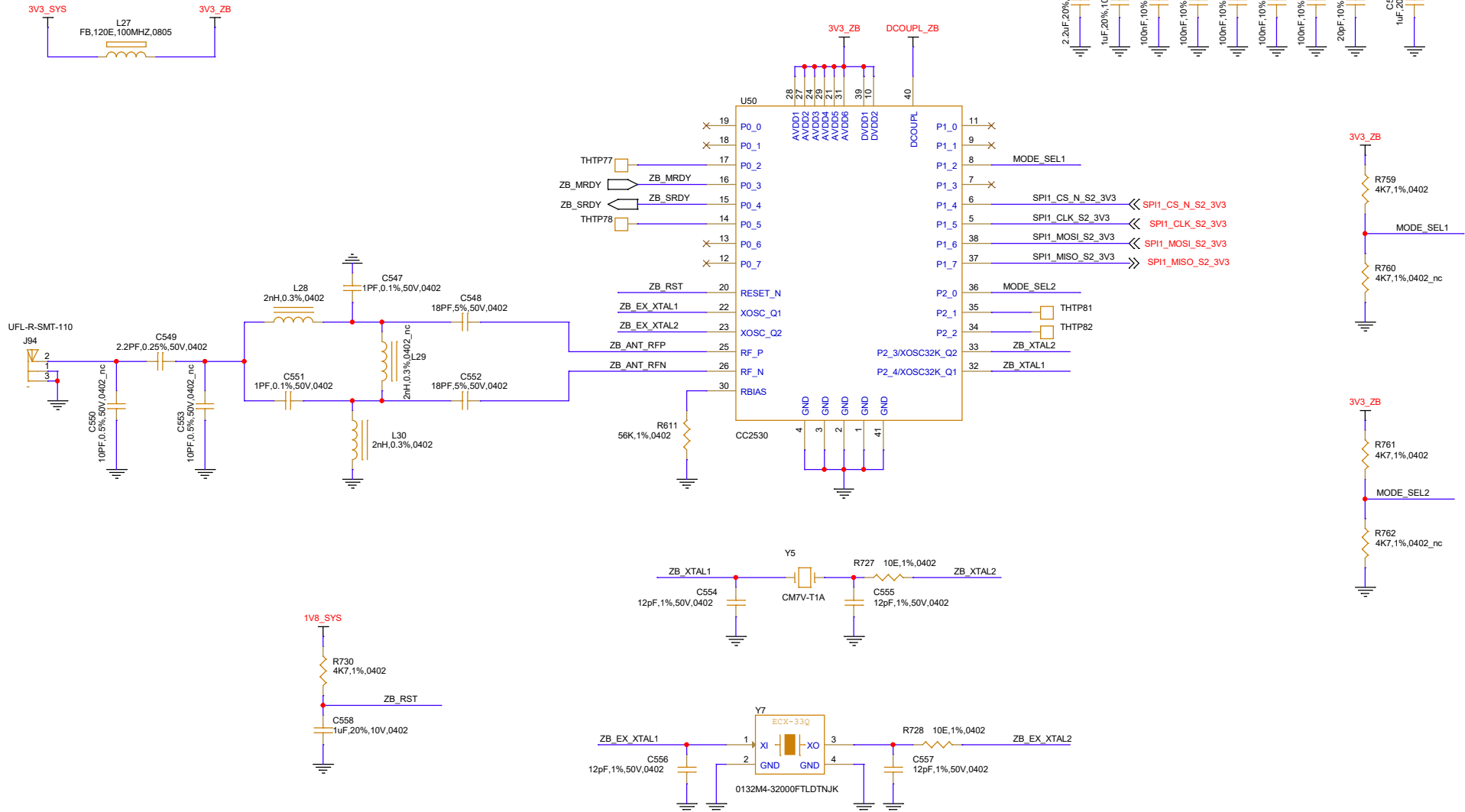
GN25L95 has on-chip 10k pull-up on I2C 1 Bus



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SPI1_ZIGBEE



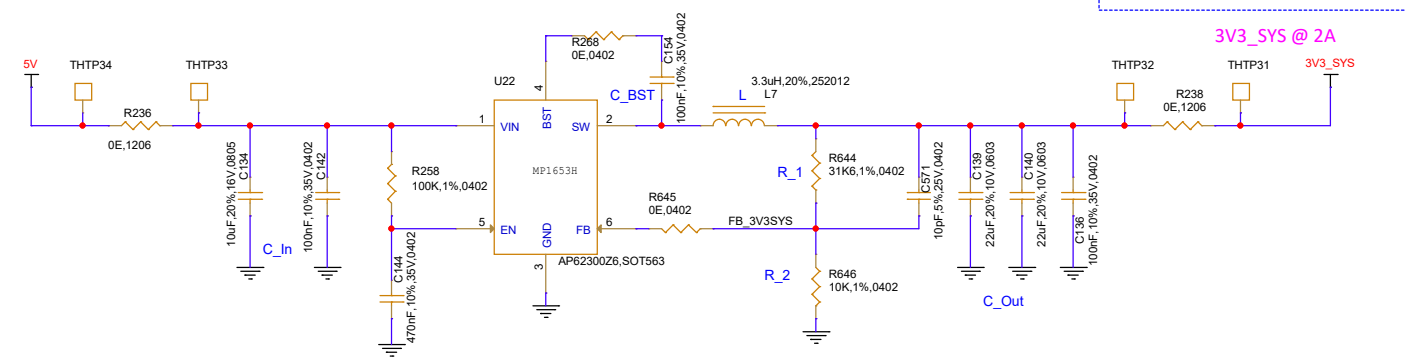
		Aheesa Digital Innovations Private Limited First Floor, New No. 7, Old No. 3, Khana Bagh Street, Triplicane, Chennai - 600 005, Tamilnadu, INDIA. www.aheesa.com		
Project : VIHAAN1				
Title : SPI1_ZIGBEE				
Sheet: 29 of 37			Size: Custom	
Document No:		Ver:1.0	Rev: A	Date: Tuesday, October 20, 2026
Created by: Ananth & Sukha		Reviewed by: Sukha & Ananth		Approved by: Sukha & Ananth

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Buck Converters

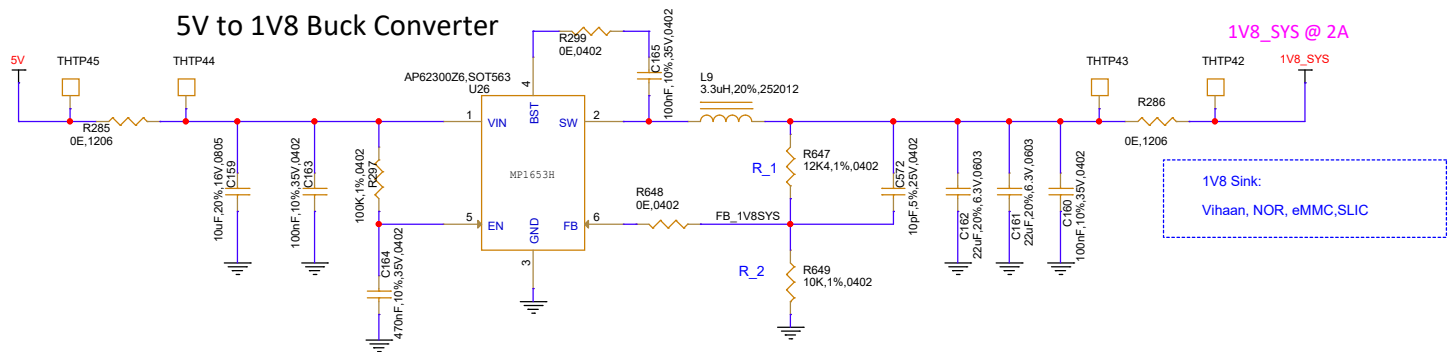
5V to 3V3 Buck Converter



3V3 Sink:
Vihaan, eMMC, SD, LED, SPI Display,
XPON, PCIe CLK Gen, UART, SLIC

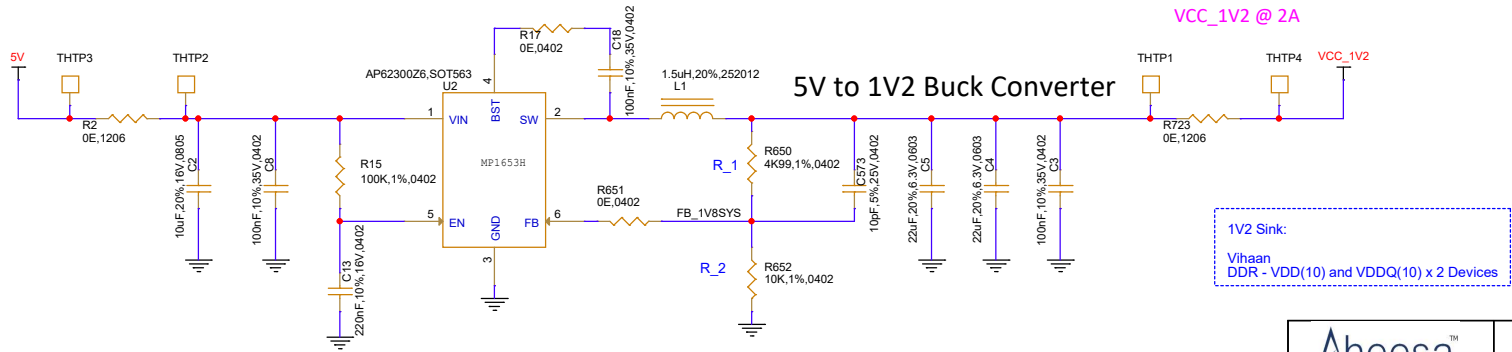
Derived Power Domains:
DDR VPP_2V5, VTT_0V6, VREFC_0V6

5V to 1V8 Buck Converter



1V8 Sink:
Vihaan, NOR, eMMC, SLIC

5V to 1V2 Buck Converter



1V2 Sink:
Vihaan
DDR - VDD(10) and VDDQ(10) x 2 Devices

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Project : VIHAAN1				
Title : Power - 3V3_SYS, 1V8_SYS & VCC_1V2 Converters				
Sheet: 34		of 37		Size: Custom
Document No:		Ver: 1.0	Rev: A	Date: Tuesday, October 20, 2026
Created by: Ananth & Sukha		Reviewed by: Sukha & Ananth		Approved by: Sukha & Ananth