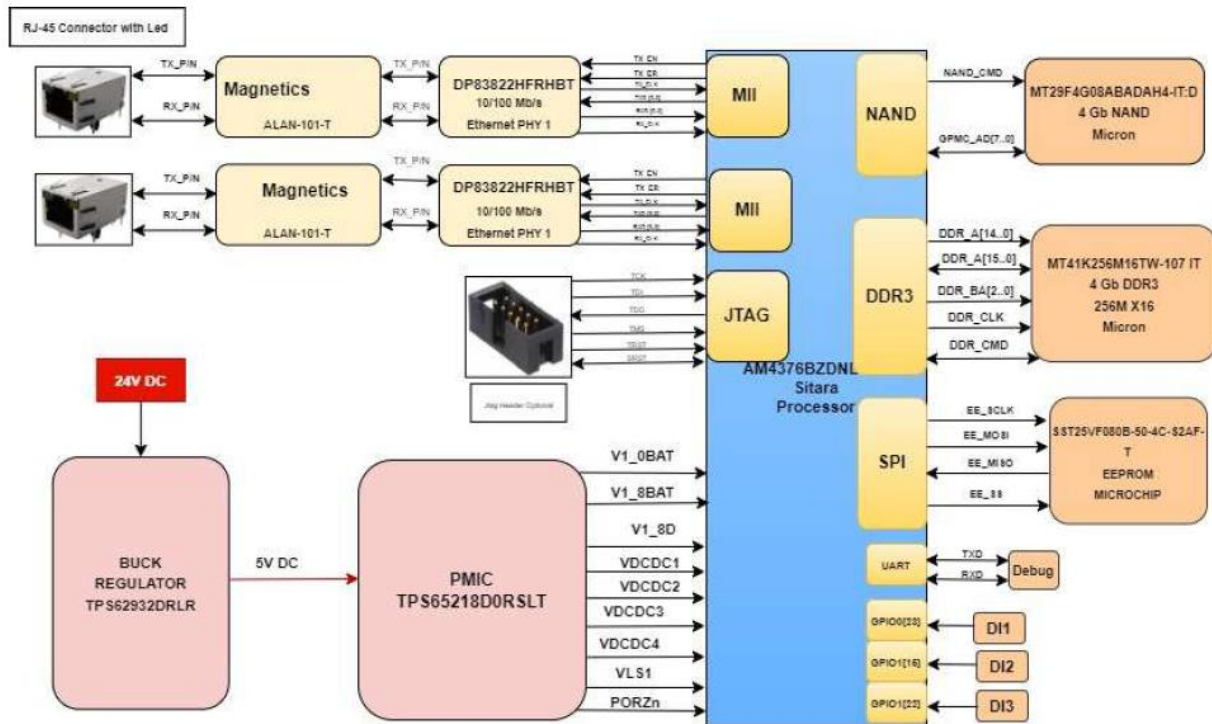


Pearl Ethernet Module

Block Diagram:



Statement of work:

- Board Bring-up
 - Custom Board Bring-up with RT Linux, basic peripheral testing.
 - Processor Communication: Establish a communication with the processor AM4376 (e.g., using JTAG or a serial interface) and send commands to verify its operation.
 - Memory Testing: Use appropriate software or tools to test the NAND flash and DDR3 memory for proper functionality and data retention.
 - Peripheral Testing: Test other peripherals like SPI, EEPROM, and GPIO pins to ensure they are functioning correctly.
 - Ethernet Connectivity: Connect a network cable to the RJ-45 connector and test network connectivity.
- CAN-FD Driver development.