

2. Read the datasheet, user manual/ getting started manual specific to your Embedded Linux-board. Write a 4 page summary based on your understanding about board details such as CPU architecture & type, memory types supported by the board, on-board buses, booting sequence, peripherals supported, various booting options and any other relevant information.

### **CPU Architecture & Type:**

- CPU: Texas Instruments Sitara AM3358/9 ARM Cortex-A8 processor.
- Architecture: ARMv7-A architecture.
- Memory Types Supported:
- RAM: 512MB DDR3.
- Storage: 4GB 8-bit eMMC on-board flash storage.
- MicroSD: External storage option.
- On-board Buses:
- GPIO: General Purpose Input/Output pins.
- I2C, SPI, UART: Various communication interfaces for connecting peripherals.

### **Booting Sequence:**

- The BeagleBone Black can boot from different sources, including the on-board eMMC, microSD card, or USB.

**Peripherals Supported:**

- Ethernet: 10/100 Ethernet.
- USB: USB 2.0 ports for connecting peripherals.
- HDMI: HDMI interface for video output.
- Audio: Stereo output/input.
- CAN: Controller Area Network interface.
- PWM: Pulse Width Modulation for controlling motors and other devices.

**Various Booting Options:**

- eMMC: Booting from the on-board eMMC storage.
- microSD: Booting from a microSD card.
- USB: Booting from a USB device.