1. 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.