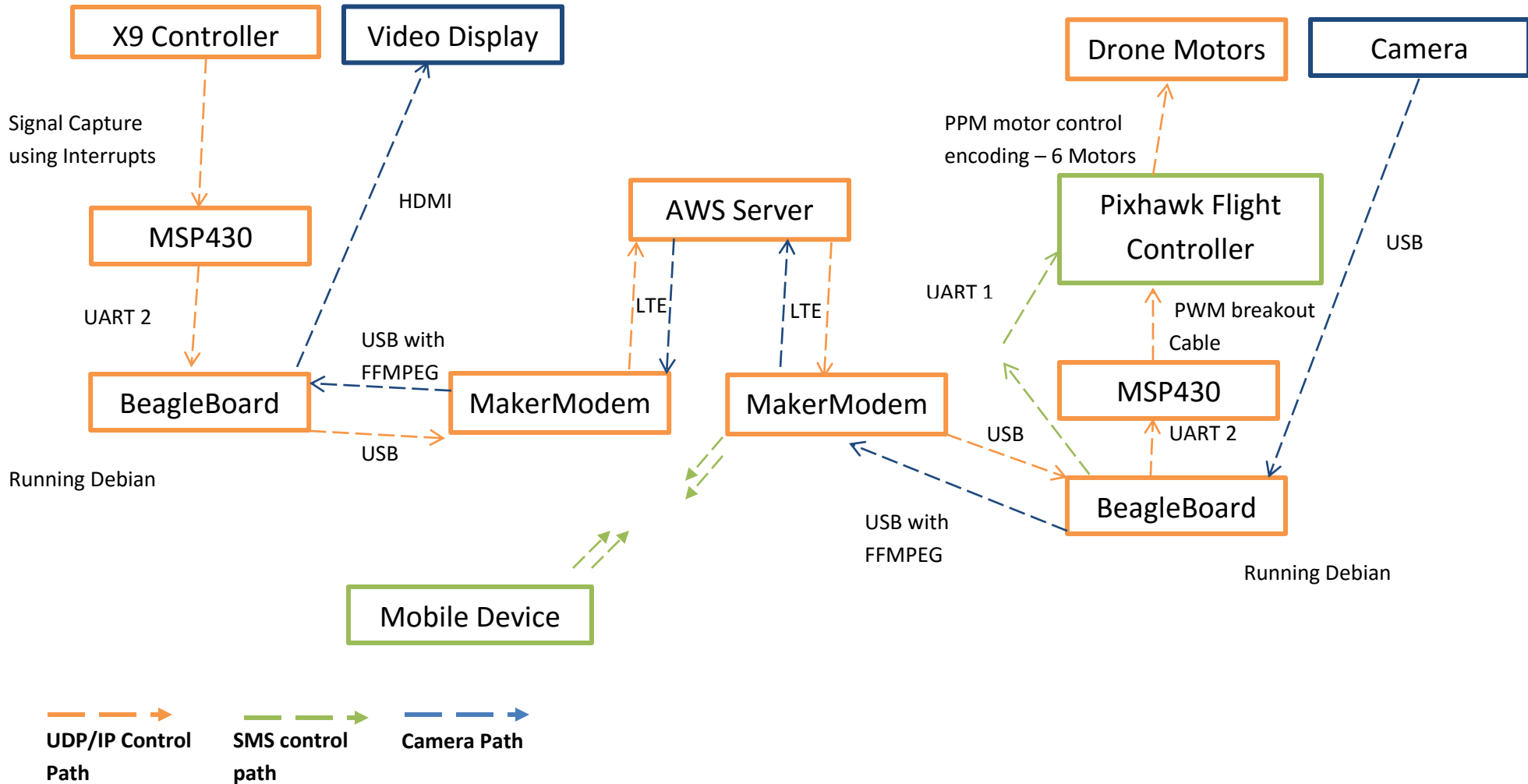


# Command & Control Architecture



The X9 Controller is the handheld device used to control the drone. The first Launchpad MSP430 decodes the signal from the X9 and sends it to the first BeagleBoard. The BeagleBoard then uses the MakerModem to send the signal to an Amazon Web Services cloud server to bypass the ATT network's restrictions on incoming connection requests. The server will then transmit the data to the second MakerModem. The signal travels in reverse order this way to the second BeagleBoard and then to the second Launchpad. The Launchpad then sends the signal to the Pixhawk flight controller which finally controls the Drone. The camera will send data on the complete opposite path, skipping the Launchpads and Pixhawk.