

The University Of Maryland Eastern Shores (UMES), as part of a Degree Program is utilizing a small UAS called the Skate. The Skate is a battery powered, light weight, man packable Small Unmanned Aerial System (SUAS). The Skate is made from Expanded Polypropylene (EPP) foam, which is durable and lightweight. The Skate is two feet long and weighs 1.5 pounds. The vehicle uses electric motors for propulsion and carries an electric optical camera for payload. This UAS will be operated within a FAA approved operating area and used to test small optical cameras.



Radio Frequency Interference

To date, Skate has experienced no RFI issues.

Command and Control

XBee Pro 1900MHz Manufacturer: Digi Part#: 1XBP091DPWIT11561

Power: 150mW Freq: 190219281MHz Channels: 1121

Video Downlink:

Stinger Pro 5.8 GHz Manufacturer: iftron technologies Power: 500mW

Freq: 5.74015.8601GHz Channels: 8