

Communications Systems Description

The primary communications link with the VIPAR UAS is a 2.4 MHz Micro-Hard brand, UAV-specific radio modem. This device has a long history of reliability and is the accepted industry standard for UAS communications. Operationally, UCAID has interleaved autopilot telemetry with real-time video, thus eliminating the need for separate radios. Additionally, two other radio links operate in parallel, servicing the UAS. These parallel radios are:

- RC link; 2.4 GHz @ 750 mW. This is a model aircraft radio control system used only for local control of the UAS during launching and landing procedures.
- Sage Tech Mode C Transponder. This is a TSO-C88b approved transponder configured for use in UASs enabling GCS control of ident and squawk capabilities.