Test Document - Perfect Pass

1. Introduction

This document provides an overview of the system's purpose, scope, and context.

2. References

[1] Smith et al., Architecture Reference.

3. Definitions and Acronyms

UAV: Unmanned Aerial Vehicle; RJ45: Ethernet connector.

4. System Overview

Describes subsystems, interactions, and primary data flow.

5. Design Considerations

Includes constraints, assumptions, and key design decisions.

6. Architectural Design

The architecture consists of modular components communicating over standard interfaces. Each module has clearly defined responsibilities and interacts with others using APIs. Control and data flow are centralized for reliability.

7. Detailed Design

Provides module-level implementation details, state machines, and interfaces.

8. Traceability

Links all requirements to architecture and design elements to ensure coverage.

8.1 Trace Matrix

This subsection contains the matrix.

8.2 Requirements Mapping

This subsection links requirements.

The UAV system uses Ethernet to communicate.

Figure 1 shows the complete system diagram.

Table 1 lists hardware components.

Figure 1: System Diagram Overview

Table 1: Components Overview

The platform should operate reliably and follow best practices as recommended.