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Technical Specification for <Name>

Document No: <Doc No>, Revision: -

Coordination Sheet

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| **PREPARED BY** | Design Eng. | <Name> | <Signature> |
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Revisions

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| **Rev No.** | **Date** | **Description** |
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# Introduction

This section contains the introduction of the system, requirement, end use and system functions etc.

## Scope

Describe the scope of the document and its contents.

# Reference Documents

This section to include reference of documents relevant to the Technical Specification with title and document number in table format. The list may include requirement specification and standards and guidelines to be followed for realization and certification of the system.

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# System Overview

This section contains block diagram(s) of system interfacing with other systems with detailed description, system functions and modes operation etc.

# System Specification

This section contains system specification, Mechanical, Electrical, Interface, Software requirements, performance, reliability, failsafe, growth potential and their details and standards to comply.

## System specification:

 System specifications, performance parameters, detailed system functions and standards to comply

## Mechanical:

Dimensions, weight, mounting, connectors, painting, type of material to use and standards to comply

## Electrical:

Power consumption, Power supply interface details, bonding, insulation and standards to comply

## Interface:

All the interface requirements, TTL, spare requirements, protocol standards to comply

## Software:

Software development guidelines to be followed and certification requirements

## Performance requirements:

Boot up time at ambient and minimum operating temperature, restart time, performance during power interrupt, response time, forced cooling requirements etc.

## Reliability:

Reliability requirement to be specified, Ex: MTBF, MTTR

## Fail safe requirements:

Mention the safety classification of the system and performance requirements during its failure.

# Qualification Requirements

Mention the applicable Environmental, Electrical, EMI/EMC, lightning tests requirements and their levels with respect envelope of use.

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| **Sl. No.** | **Name of Test** | **Test Profile** | **Reference Standards** | **Remarks** |
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# Test and Support Equipment

If any ground equipment is required to be delivered, ex: rugged laptop for field loading of data/ downloading of flight data, in-situ programming tools, ATEs etc, give details about the tools.

# Marking

Nameplate or product marking shall specify

1. Name of the equipment
2. Name of the manufacturer
3. Part Number
4. Serial number
5. Year of manufacture
6. Provision to indicate Hardware and Software Configuration status
7. Any other relevant details.