HARDWARE DESIGN DOCUMENT

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# Project Code

# Introduction

[It includes expectations from Hardware Functional area in the project]

# Functional Block Diagram

[Insert the block diagrams. Suggested block diagrams should represent all hardware functioning of product, Signal flow between modules. Typical modules of product include Converter, Communication, User Interface, Power Supply etc ]

# Hardware Modules

## <Module 1 Name>

[Specify the name of module. In case of multiple modules, copy this section and use as per the requirements.The serial number of the modules will be used for traceability of the same. ]

### Description

[Details of module]

### Logical Flow

[Describe how the module works.]

### External Interfaces (if any)

[Mention the external interfaces of the module. This is a tentative list only. The final list of interfaces must be referred to from “Interface Control and Integrartion Design Document”]

### Internal Dependencies

[Identify and list down the internal dependencies]

### Critical Design Consideration

[Specify major design considerations for the module]

### Design Alternative Consideration (if any)

[Specify alternatives design considerations for the module]

### Development and Execution Environment

[Define development platform & Execution Environment for the module]

### Safety Consideration (if any)

[Specify safety considerations for the module]

### Component Selection and Details

[Components selection and its characteristics affecting the selection]

### Prototyping and its results

### Schematic and Layout considerations

### Failure modes and Mitigation steps

### Reuse Components

### Incoming

[Define and list down reuse component which are used in this module]

### Outgoing

[Define if this module can be reused]

## <Module 2 Name>

[Specify the name of module. In case of multiple modules, copy this section and use as per the requirements.The serial number of the modules will be used for traceability of the same. ]

### Description

[Details of module]

### Logical Flow

[Describe how the module works.]

### External Interfaces (if any)

Mention the external interfaces of the module. This is a tentative list only. The final list of interfaces must be referred to from “Interface Control and Integrartion Design Document”]

### Internal Dependencies

[Identify and list down the internal dependencies]

### Critical Design Consideration

[Specify major design considerations for the module]

### Design Alternative Consideration (if any)

[Specify alternatives design considerations for the module]

### Development and Execution Environment

[Define development platform & Execution Environment for the module]

### Safety Consideration (if any)

[Specify safety consideration for the module]

### Component Selection and Details

[Components selection and its characteristics affecting the selection]

### Prototyping and its results

### Schematic and Layout considerations

### Failure modes and Mitigation steps

### Reuse Components

### Incoming

[Define and list down reuse component which are used in this module]

### Outgoing

[Define if this module can be reused]

# Off the shelf Components

[Identify and list down off the shelf components which are used in this application. State the reason for selection of each. ]

# Created by

[Mention the name of the Authors.]

# Date

[DD/MM/YYYY]