Contents

[1. Introduction 2](#_Toc73559676)

[2. Design Concept 3](#_Toc73559677)

[3. Protocol Format 4](#_Toc73559678)

[3.1 Destination Address: 4](#_Toc73559679)

[3.2 Source Address: 4](#_Toc73559680)

[3.3 Message Type: 4](#_Toc73559681)

[3.4 Packet Length: 5](#_Toc73559682)

[3.5 Data 1 to N/Payload: 5](#_Toc73559683)

[3.6 CRC: 5](#_Toc73559684)

[4. Message Topology 6](#_Toc73559685)

[5. Challenges 8](#_Toc73559686)

[6. Solution for Challenges 9](#_Toc73559687)

I am using STM32F072 DiscoveryKit board developing monitoring Device application

Compiler = KEIL ARM C compile free version from below link

<https://www2.keil.com/stmicroelectronics-stm32/mdk>

The complete package of Source code and hex file are uploaded into Github, You can download the set up and load Hex file using ST32 ST-LINK utility.

I have used Docklight Software to simulate the devices and sending message from Docklight software.

Refer to below image for complete setup

