HC-12:

Using 2 HC-12s, send a signal from 1 HC-12 (the transmitter which will be on the balloon) to another HC-12 (the receiver which will be on the ground). Each HC-12 will be connected to a ESP32 as shown below.

Connections:

|  |  |
| --- | --- |
| HC-12 | ESP32 |
| VCC | VCC |
| GND | GND |
| RXD | U0T |
| TXD | U0R |
| SET | Not connected |

Upload the code to the transmitter HC-12. The code tells the HC-12 to repeatedly send a message out, which will be received by the receiver HC-12. From the serial monitor, the receiver HC-12 will be able to receive the message.

#include <HardwareSerial.h>

// Initialize HC-12 Serial

HardwareSerial SerialHC12(1);

void setup() {

  Serial.begin(9600);                     // For Serial Monitor

  Serial.println("HC-12 Sender Initialized");

}

void loop() {

  Serial.println("Message sent: Hello from HC-12!");

  delay(1000);                              // Delay 1 second

}