MAVLink Communication

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Configure the telemetry 2 port for MAVLink1 communication
Components and Hardware: Arduino UNO, FC (Pixhawk/ Cube orange/ black)
Changed mission planner parameters:
SERIAL2_PROTOCOL = 2(2 for MAVLink2 as communication protocol)
SERIAL2_BAUD = 921(Baud Rate for communication).
Arduino Code:
//code starts
#include "mavlink.h"
void setup()
{
Serial.begin(57600);
}
void loop()
{
setmode_Auto();
}
void setmode_Auto() {
//Set message variables
 uint8_t _system_id = 255;
 uint8_t _component_id = 2;
 uint8_t _target_system = 1;
 uint8_t _base_mode = 1;
 uint32_t _custom_mode = 2;
// Initialize the required buffers
 mavlink_message_t msg;
 uint8_t buf[MAVLINK_MAX_PACKET_LEN];
```

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// Pack the message
mavlink_msg_set_mode_pack(_system_id, _component_id, &msg, _target_system, _base_mode,
_custom_mode);
uint16_t len = mavlink_msg_to_send_buffer(buf, &msg); // Send the message (.write sends as
bytes)
Serial.write(buf, len); //Write data to serial port
}
//code ends
```

After successfully burning this code with Arduino and connecting TX to RX pin of the FC and vice versa. The Arduino will send a continuous MAVLink message to the FC to change the flight mode.

After turning on the Arduino flight mode will be changed from current one to AltHold.