Remote Controller Manual

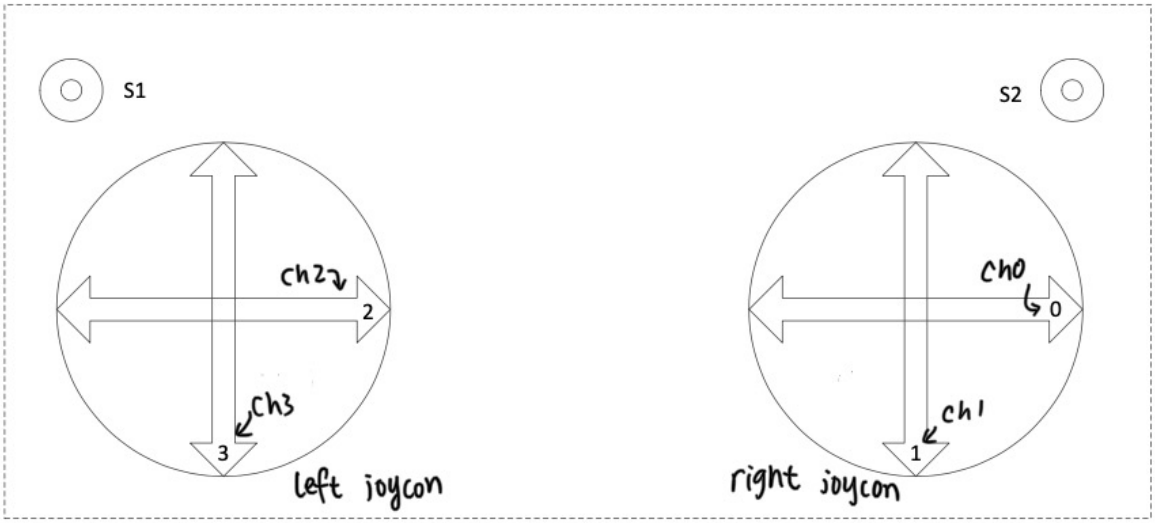
The receiver receives 18 Bytes data every 14ms through DBUS.

DBUS	Value
Baud Rate	100Kbps
Word Length	8
Parity	Even
Stop Bit	1

18 Bytes Explanation

	Channel 0	Channel 1	Channel 2	Channel 3	S1	S2
Shift	0	11	22	33	44	46
Length(bit)	11	11	11	11	2	2
Range	Maximum: 1684 Middle : 1024 Minimum: 364	Maximum: 1684 Middle : 1024 Minimum: 364	Maximum: 1684 Middle : 1024 Minimum: 364	Maximum: 1684 Middle : 1024 Minimum: 364	Max: 3 Min: 1	Max: 3 Min: 1
Function	Remote Controller Channel 0	Remote Controller Channel 1	Remote Controller Channel 2	Remote Controller Channel 3	s1 switch	s2 switch

Controller Layout



Decode Controller Message Example Code

```
    RC_CtrlData.rc.ch0 = ((int16_t)pData[0] | ((int16_t)pData[1] << 8)) & 0x07FF;
    RC_CtrlData.rc.ch1 = (((int16_t)pData[1] >> 3) | ((int16_t)pData[2] << 5))
& 0x07FF;
    RC_CtrlData.rc.ch2 = (((int16_t)pData[2] >> 6) | ((int16_t)pData[3] << 2) |
                          ((int16_t)pData[4] << 10)) & 0x07FF;
    RC_CtrlData.rc.ch3 = (((int16_t)pData[4] >> 1) | ((int16_t)pData[5]<<7)) &
0x07FF;

    RC_CtrlData.rc.s1 = ((pData[5] >> 4) & 0x000C) >> 2;
    RC_CtrlData.rc.s2 = ((pData[5] >> 4) & 0x0003);

    RC_CtrlData.mouse.x = ((int16_t)pData[6]) | ((int16_t)pData[7] << 8);
    RC_CtrlData.mouse.y = ((int16_t)pData[8]) | ((int16_t)pData[9] << 8);
    RC_CtrlData.mouse.z = ((int16_t)pData[10]) | ((int16_t)pData[11] << 8);

    RC_CtrlData.mouse.press_l = pData[12];
    RC_CtrlData.mouse.press_r = pData[13];

    RC_CtrlData.key.v = ((int16_t)pData[14]);// | ((int16_t)pData[15] << 8);
```

Flow Chart