

深圳市富斯科技有限公司

霍尔总成座串口协议 V2

串口通讯协议

UART configurations			
Baud Rate	DataBits	Parity	StopBits
921600	8	NONE	1

数据包结构

一个完整的数据包格式如下:

Startbit 8Bits	SenderID 2Bits	ReceiverID 2Bits	PacketID 2Bits	Length 8Bits	Payload 8*NBits	CRC16 16Bits
0x55	0x0:HallStick 0x1:RemoteController 0x2:PersonalComputer 0x3:Reserved	0x0:HallStick 0x1:RemoteController 0x2:PersonalComputer 0x3:Reserved	0xB:VersionID 0xC:ChannelID 0xD:CommandID 0xE:PayloadID	0~255 Payload Length	N bytes (小端模式)	CRC16
CRC16 calculation area						CRC16

遥控器复位霍尔

遥控器复位霍尔:

Startbit 8Bits	SenderID 2Bits	ReceiverID 2Bits	PacketID 4Bits	Length 8Bits	Payload 8*NBits	CRC16 16Bits
0x55	0x1:RemoteController	0x0:HallStick	0xD:CommandID			
0x55	0xD1			0x01	0x01	CRC16

霍尔重启不回复。

遥控器获取霍尔参数

遥控器获取霍尔参数:

Startbit 8Bits	SenderID 2Bits	ReceiverID 2Bits	PacketID 4Bits	Length 8Bits	Payload 8*NBits	CRC16 16Bits
0x55	0x1:RemoteController	0x0:HallStick	0xD:CommandID			
0x55	0xD1			0x01	0x00	CRC16

霍尔回复遥控器复位:

Startbit 8Bits	SenderID 2Bits	ReceiverID 2Bits	PacketID 4Bits	Length 8Bits	Payload 8*NBits	CRC16 16Bits
0x55	0x0:HallStick	0x1:RemoteController	0xE:CommandID			

0x55	0xE4	0x19	CH1 MIN(-32768~32767) CH1 MID(-32768~32767) CH1 MAX(-32768~32767) CH2 MIN(-32768~32767) CH2 MID(-32768~32767) CH2 MAX(-32768~32767) CH3 MIN(-32768~32767) CH3 MID(-32768~32767) CH3 MAX(-32768~32767) CH4 MIN(-32768~32767) CH4 MID(-32768~32767) CH4 MAX(-32768~32767) 0 (ResetState0-255)	CRC16
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遥控器获取版本信息

遥控器获取霍尔参数:

Startbit 8Bits	SenderID 2Bits	ReceiverID 2Bits	PacketID 4Bits	Length 8Bits	Payload 8*NBits	CRC16 16Bits
0x55	0x1:RemoteController	0x0:HallStick	0xB:CommandID			
0x55	0xB1			0x01	0x00	CRC16

霍尔回复遥控器复位:

Startbit 8Bits	SenderID 2Bits	ReceiverID 2Bits	PacketID 4Bits	Length 8Bits	Payload 8*NBits	CRC16 16Bits
0x55	0x0:HallStick	0x1:RemoteController	0xB:CommandID			
0x55	0xB4			0x14	Byte[0-11] : 唯一标识。 每一个霍尔都不相同。 Byte[12-15] : 软件版本号 Byte[16-19] : 硬件版本号	CRC16

霍尔上报通道数据 2

Startbit 8Bits	SenderID 2Bits	ReceiverID 2Bits	PacketID 4Bits	Length 8Bits	Payload 8*NBits	CRC16 16Bits
0x55	0x0:HallStick	0x1:RemoteController	0xC:ChannelID			
0x55	0xC4			0x09	CH1 Data(-32768~32767) CH2 Data(-32768~32767) CH3 Data(-32768~32767) CH4 Data(-32768~32767) StickState(0-255, 0x00 HallStick1 NG HallStick2 NG 0x01 HallStick1 OK HallStick2 NG 0x10 HallStick1 NG HallStick2 OK 0x11 HallStick1 OK HallStick2 OK)	CRC16

备注: HallStick1:带 MCU 的总成座 HallStick2: 不带 MCU 的总成