通讯协议们

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Serial Port Transmission Standard

Abstract

We have plenty type of package.

There are two different way to serialize a collection of data: XML and Binary.

Data Package

XML

The XML way work like this

```
<TargetPosition X="234.4565" Y="418.1999" Z="251.303" Id="902466346"/>
```

Binary

1 byte Magic Number as Header: -86 (1010_1010)

1 byte Sequence

1 byte Package Type

1 byte CRC of Data

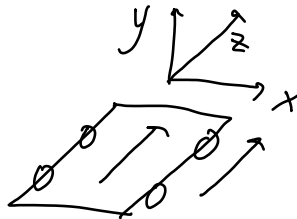1 byte Length of Data

Length byte of Data

Data Package Type

Target Position

TargetPosition=0

4 Byte float X in cm

4 Byte float Y in cm

4 Byte float Z in cm

Target Angle

TargetAngle=1

4 Byte float X Yaw in degree

4 Byte float Y Pitch in degree

Target Delta Angle

TargetDeltaAngle=2

4 Byte float X Yaw in degree

4 Byte float Y Pitch in degree

Cradle Head Position

CradleHeadPosition=128

4 Byte float X Yaw in degree

4 Byte float Y Pitch in degree