# 通讯协议们

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10:48 AM

# 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

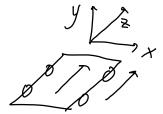
# **Target Position**

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

#### Fire

Fire=3

1 Byte Gun Id

1 Byte Amount in byte

## **Friction Speed**

FrictionSpeed=4

1 Byte Gun Id

4 Byte Frequency in Min^-1