Data format of closed - loop board serial port communication protocol

	frame he	ader	length	function code	data (H)	data (L)	check sum	frame tail
	0xFE	0xFE	XX	XX	XX	XX	XX	0x16
bac								
$\{OK$	}	Receiv	Receive correct back					

Checksum = (length + function code + data (H) + data (L)) & 0xff

For example:								
Modify Kp:	FE	FE	05	AO	00	28	CD	16
Modify Ki:	FE	FE	05	A1	00	OA	В0	16
Modify Kd:	FE	FE	05	A2	00	C8	6F	16
Read the PID parameters	FE	FE	05	В0	AA	AA	09	16
Read current parameters:	FE	FE	05	B1	AA	AA	OA	16
Read microstep parameters:	FE	FE	05	В2	AA	AA	ОВ	16

Notes:

- 1. XX represents variable data, frame head and frame tail are immutable!
- 2. Data is sent in hexadecimal
- 3. The function code can be extended in accordance with this communication Function code data range: 0xA0 -0xBF is the write data range

function

high byte comes first.

- 4. Hexadecimal letters are not necessarily case sensitive
- 5. Communication error information:
 - <1>. Frame header or frame tail receiving error: "Frame Err!\r\n"
 - <2>, CRC verify error: "CRC verify err\r\n"
 - <3>, Data length receiving error: "Data Length err\r\n"
 - <4>. Function code data out of range error: "Function Code err\r\n"
 - <5>, Function code not defined error: "Function Code Undefined\r\n"
 - <6>, Error reading PID parameter information: "Read PID err\r\n"
 - <7>\ Error reading current parameter: "Read Current err\r\n"
 - <8>. Error reading current microstep parameter: "Read Mmicrostep err\r\n"