

Mini HEX Protocol - ICD (Request/Response)

Client sends requests; Server replies. Server keeps state: STATUS(1 byte) and NUMBER(counter).

1) Frame

Field	Size	Description
STX	1	0xAA
CMD	1	Command code
LEN	1	Payload length (0..255)
PAYLOAD	LEN	Bytes
CHK	1	XOR of CMD, LEN, PAYLOAD
ETX	1	0x55

2) Codes

Code	Name	Dir	Payload	Description
0x01	HELLO	C->S	ASCII (optional)	Handshake request
0x10	GET_STATUS	C->S	-	Request server status
0x11	GET_NUMBER	C->S	-	Request counter value
0x20	SET_STATUS	C->S	[state(1)]	1=IDLE, 2=ACTIVE
0x81	HELLO_ACK	S->C	ASCII "hello~"	Handshake reply
0x90	STATUS	S->C	[state(1)]	Server-held status
0x91	NUMBER	S->C	[u32_le]	Monotonic counter (1,2,3,...)
0xA0	ACK	S->C	[state(1)]	For SET_STATUS
0xA1	NACK	S->C	[err(1)]	0x01 bad payload, 0xFF unknown

3) Examples

GET_STATUS: client AA 10 00 10 55 -> server STATUS [state]

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