### Commands.

## 1. Application → InputStick:

CMD:	Required:	FW >=
Run firmware (0x04)	Y	v0.94
Get firmware info (0x10)	Y	v0.94
Reset report buffers (0x11)	N	v0.94
Authenticate (0x12)	Y	v0.94
Settings (0x14)	N	v0.94
Restore defaults (0x15)	N	v0.94
Read settings (0x17)	N	v0.97
Set PIN (0x18)	N	v0.97
USB Resume (0x19)	N	v0.97
USB Power (0x1A)	N	v0.97
Unlock (0x1B)	N	v0.97
Queue keyboard reports (0x21)	Y	v0.94
Queue consumer reports (0x22)	Y	v0.94
Queue mouse reports (0x23)	Y	v0.94
Queue gamepad reports (0x24)	N	v0.97
Queue mixed reports (0x25)	N	v0.98
Write to endpoint (0x2B)	N	v0.97
Queue SHORT keyboard reports (0x2C)	N	v0.97
Queue Press and Release events (0x2D)	N	v0.97

Commands that are not marked as "Required" are not necessary for normal operation. Setting up password protection or restoring factory defaults can be performed using Android smartphone or tablet (InputStickUtility application).

"Authentication required": applies only when password protection is enabled. If not, all commands can be executed without authentication.

# Run firmware (0x04)

Short description:	Run firmware	
CMD byte:	0x04	
Authentication required:	No	
Since FW version:	0.94	
PARAM:	None (0x00)	
DATA:	None	
RESP_CODE:	0x01 OK	
RESP_DATA:	None	
Details:	When this command is received by bootloader, it will immediately jump to main firmware. When it is received by main firmware, nothing happens. Always use this command after establishing connection.	

Usage example: see (6) examples.pdf.

# Get firmware info (0x10)

Short description:	Requests firmware information		
CMD byte:	0x10		
Authentication required:	No	No	
Since FW version:	0.94		
PARAM:	None (	0x00)	
DATA:	None		
RESP_CODE:	0x01	ОК	
RESP_DATA:	Bytes:	Description:	
	0	Firmware type ('B')	
	1	Firmware version, major $(0x00 = 0)$	
	2	Firmware version, minor $(0x60 = 96)$	
	3	Hardware revision $(0x01 = 1)$	
	4	Reserved	
	5	Reserved	
	6	USB pullup (0x01 – pullup enabled, 0x00 pullup disabled)	
	7	USB state (0x05 – USB ready)	
	8	Startup status (0x08 - OK)	
	915	Reserved	
	16	Encrypt outgoing data	
	17	Authenticated	
	18	Password protected	
	1923	Reserved	
	2327	System time (ms)	
	2831	Total RX bytes	
	3235	Total TX bytes	
Details:	Use this command to identify hardware and firmware version. Always use this command before sending any command that requires authentication. If password protection is enabled, it will be necessary to authenticate first.		

### Notes:

### USB pullup:

Value:	State:	Description:
0x00	Disabled	Pullup disabled. USB host will assume the device is disconnected.
0x01	Enabled	Pullup enabled. USB host will be able to detect the device.

#### USB state:

Value:	State:	Description:
0x00	Unconnected	Initial state.
0x01	Attached	State after bus reset.
0x02	Powered	
0x03	Suspended	
0x04	Addressed	Host assigned address to the InputStick device.
0x05	Configured (READY)	Host is ready to receive data (reports).

Usage example: see (6) examples.pdf.

# Reset report buffers (0x11)

Short description:	Resets state of report buffers	
CMD byte:	0x11	
Authentication required:	Yes	
Since FW version:	0.94	
PARAM:	None (0x00)	
DATA:	None	
RESP_CODE:	0x01 OK	
RESP_DATA:	None	
Details:	All reports still present in buffers will be removed. This command is automatically executed on system startup, it is no longer necessary to send it during initialization.	

# Authenticate (0x12)

Short description:	Perform authentication	
CMD byte:	0x12	
Authentication required:	No	
Since FW version:	0.94	
PARAM:	Enable	outgoing encryption (currently ignored!)
DATA:	Bytes:	Description:
	015	AES-128 IV (Initialize Vector)
	1631	KeyVerificationData
	3247	KeyChallengeData
RESP_CODE:	0x01	OK
	0x20	Invalid encryption key
	0x21	Password protection is not enabled (no encryption key present)
RESP_DATA:	Bytes:	Description:
	015	KeyResponseData (encrypted KeyChallengeData)
Details:		rificationData – allows InputStick to verify if remote ation knows the encryption key.
	<ul> <li>KeyChallengeData – used by InputStick to generate KeyResponseData.</li> <li>KeyResponseData – used by InputStick to prove that it knows the encryption key.</li> <li>How to generate KeyVerificationData: <ol> <li>Reserve 4 bytes for CRC32 value.</li> <li>Generate 12 random bytes.</li> <li>Calculate CRC32 checksum using previously generated data.</li> <li>Store CRC32 data into previously reserved space or leave 0x00000000 (not recommended).</li> <li>Encrypt all 16 bytes.</li> </ol> </li> <li>InputStick will decrypt received KeyVerificationData, calculate CRC32 and compare with provided value. If encryption keys are identical on both sides, CRC32 values will be identical.</li> </ul>	
	1	generate <i>KeyChallengeData</i> : Generate 16 random bytes.
	1	o do with <i>KeyResponseData?</i> Decrpyt <i>KeyResponseData</i> .

	<ol> <li>Compare result with previously sent <i>KeyChallengeData</i>.</li> <li>Both arrays must be identical.</li> </ol>
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Usage example: see (6) examples.pdf.

# Settings (0x14)

Short description:	Set Settings		
CMD byte:	0x14	0x14	
Authentication required:	No	No	
Since FW version:	0.94	0.94	
PARAM:	0x01	Set password	
DATA:	Depends on PARAM.		
RESP_CODE:	0x01	OK	
	0x05	Invalid Settings code (PARAM)	
RESP_DATA:	Bytes:	Description:	
	015	KeyResponseData (encrypted KeyChallengeData)	
Details:	When settings password ( <i>PARAM</i> = 0x01), <i>DATA</i> is a AES-128 key (16B). When key is set to 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		

# Restore defaults (0x15)

Short description:	Restore system defaults.		
CMD byte:	0x15	0x15	
Authentication required:	No	No	
Since FW version:	0.94		
PARAM:	0x00	Cancel restore procedure.	
	0x01	Start restore procedure.	
DATA:	None		
RESP_CODE:	0x01	ОК	
	0xFE	Invalid PARAM	
RESP_DATA:	None		
Details:	state of times. factory	Initiates "Restore defaults" procedure. User must set requested state of keyboard LEDs (NumLock, CapsLock, ScrollLock) several times. When completed successfully, InputStick will be restored to factory defaults (password protection will be removed).  See also: Restore defaults Update (0x16)	

# Read settings (0x17)

Short description:	Reads settings specified by <i>PARAM</i> .		
CMD byte:	0x17	0x17	
Authentication required:	No		
Since FW version:	0.97		
PARAM:	0x02	Reads USB descriptor settings	
DATA:	None		
RESP_CODE:	0x01	ОК	
	0xFE	Invalid PARAM	
RESP_DATA:	Settings data (specified by PARAM)		
Details:	Length of <i>RESP_DATA</i> :  18B ( <i>PARAM</i> = 0x02, USB descriptor configuration).		

# Set PIN (0x18)

Short description:	Sets Bl	Sets Bluetooth pairing PIN	
CMD byte:	0x18	0x18	
Authentication required:	No	No	
Since FW version:	0.97		
PARAM:	0x04	4 digit PIN (BT2.1 devices only)	
	0x06	6 digit PIN (BT4.0 devices only)	
DATA:	PIN di	gits (ASCII)	
RESP_CODE:	0x01	ОК	
	0x26	Invalid character (not a ASCII digit)	
	0x27	PIN change is already in progress	
	0x28	Invalid number of characters	
RESP_DATA:	None	None	
Details:	connection will be	1 second after sending response, InputStick will reset BT module, connection will be lost. PIN will be changed 2 seconds later. Success will be indicated by toggling keyboard LEDs (Windows only).  After successful PIN change InputStick must be removed from USB port and paired again during next connection attempt.	
	Setting PIN for BT4.0 devices is not recommended due to be Android OS (OS will ask user to provide PIN during each connection).		

# USB Resume (0x19)

Short description:	Resum	Resumes USB host from sleep mode.			
CMD byte:	0x19				
Authentication required:	No				
Since FW version:	0.97	0.97			
PARAM:	None	None			
DATA:	None				
RESP_CODE:	0x01	ОК			
RESP_DATA:	None	None			
Details:		Attempts to resume USB host from sleep or suspend mode. Will not work if USB wake-up is not supported or not enabled.			

# USB Power (0x1A)

Short description:	Sets U	Sets USB pullup resistor on/off.				
CMD byte:	0x17					
Authentication required:	No					
Since FW version:	0.97					
PARAM:	0x00	Pullup resistor disabled (simulates disconnecting USB device).				
	0x01	Pullup resistor enabled (device is detected by USB host).				
	0x02	Disable pullup, enable after 3 seconds. Device will be enumerated again.				
DATA:	None					
RESP_CODE:	0x01	ОК				
RESP_DATA:	None	None				
Details:		Enabled or disables USB pullup resistor. Can be used to simulate disconnect event.				

# Unlock (0x1B)

Short description:	Requests to unlock InputStick.				
CMD byte:	0x1B				
Authentication required:	No				
Since FW version:	0.97				
PARAM:	None				
DATA:	None				
RESP_CODE:	0x01 OK				
	0x25 Unlocking not possible (timed-out)				
RESP_DATA:	None				
Details:	No need to manually send this command. InputStick is automatically unlocked for first 30 seconds after powering up. If password protection is set it is always in unlocked state.  This command allows to check if InputStick is in unlocked state (0x01 RESP_CODE)				
	See Security chapter for more details.				

#### Queue keyboard reports (0x21)

Short description:	Puts H	Puts HID keyboard reports into buffer.			
CMD byte:	0x21	0x21			
Authentication required:	Yes				
Since FW version:	0.94	0.94			
PARAM:	Numb	Number of HID keyboard reports in packet (1 - 32)			
DATA:	PARAM	PARAM * HID keyboard reports (Report1, Report2, ReportPARAM			
RESP_CODE:	0x01	ОК			
	0x03	Buffer overflow (no reports were put into buffer!)			
RESP_DATA:	None				
Details:		As long as you keep track of number of HID reports currently stored in buffer, there is no need to request reponse to this command.			
	See HI	D chapter for keyboard report details.			

#### Example:

Type "A" character: press left Shift key, hold left Shift key while pressing "A" key, release all keys.

CRC32							
0x??	0x??	0x??	0x??				

CMD	PAR	HID Key	HID Keyboard Report 1						HID Keyboard Report 2				
0x21	0x03	0x02	0x02 0x00 0x00 0x00 0x00 0x00 0x00 0x00					0x02	0x00	0x04	0x00	0x00	0x00

HID Keyboard Report 3									
0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00

CRC32: 4B Payload: 26B

Add 2B padding (0x00...)

Total length = 32B

Header (no response, no encryption): 0x55, 0x02

#### Remarks:

In most cases you should always put empty keyboard report (0x00, ...0x00 – all keys released) each time you queue keyboard reports. This allows to prevent from situation when some key remains in "pressed" state, when Bluetooth connection is lost before queuing another set of reports.

# Queue consumer reports (0x22)

Short description:	Puts H	Puts HID consumer reports into buffer.			
CMD byte:	0x22	0x22			
Authentication required:	Yes				
Since FW version:	0.94	0.94			
PARAM:	Numb	Number of HID consumer reports in packet (1 - 32)			
DATA:	PARAM	PARAM * HID consumer reports (Report1, Report2, ReportPARAM			
RESP_CODE:	0x01	ОК			
	0x03	Buffer overflow (no reports were put into buffer!)			
RESP_DATA:	None				
Details:		As long as you keep track of number of HID reports currently stored in buffer, there is no need to request response to this command.			
	See HI	See HID chapter for consumer report details.			

### Example:

### Increase system volume:

CRC32			
0x??	0x??	0x??	0x??

CMD	PAR	HID Cor	isumer R	eport 1	HID Con	sumer R	eport 2
0x2	3 0x02	0x01	0x01 0x00 0xE9			0x00	0x0 0

CRC32: 4B Payload: 8B

Add 4B padding (0x00...)

Total length = 16B

### Queue mouse reports (0x23)

Short description:	Puts H	Puts HID mouse reports into buffer.			
CMD byte:	0x23	0x23			
Authentication required:	Yes				
Since FW version:	0.94	0.94			
PARAM:	Numb	Number of HID mouse reports in packet (1 - 32)			
DATA:	PARAM	PARAM * HID mouse reports (Report1, Report2, ReportPARAM			
RESP_CODE:	0x01	ОК			
	0x03	Buffer overflow (no reports were put into buffer!)			
RESP_DATA:	None				
Details:		As long as you keep track of number of HID reports currently stored in buffer, there is no need to request response to this command.			
	See HI	See HID chapter for mouse report details.			

### Example:

Move scroll wheel by 5, move mouse pointer by X: 3, Y: 5, double left click (press left button  $\rightarrow$  release left button  $\rightarrow$  release left button)

CRC32						
0x??	0x??	0x??	0x??			

CMD	PAR	HID Mouse Report 1			HID Mouse Report 2			HID Mouse Report 3			HID Mouse				
0x22	0x06	0x00	0x00	0x00	0x05	0x03	0x05	0x00	0x00	0x01	0x00	0x00	0x00	0x00	0x00

Report	4	HID Mo	use Repo	rt 5		HID Mouse Report 5				
0x00	0x00	0x01	0x00	0x00	0x00	0x00	0x00	0x00	0x00	

CRC32: 4B Payload: 26B

Add 2B padding (0x00...)

Total length = 32B

# Queue gamepad reports (0x24)

Short description:	Puts HID gamepad reports into buffer.					
CMD byte:	0x24					
Authentication required:	Yes					
Since FW version:	0.97					
PARAM:	Number of HID gamepad reports in packet (1 - 32)					
DATA:	PARAM * HID gamepad reports (Report1, Report2, ReportPARAM					
RESP_CODE:	0x01 OK					
	0x03 Buffer overflow (no reports were put into buffer!)					
RESP_DATA:	None					
Details:	As long as you keep track of number of HID reports currently stored in buffer, there is no need to request response to this command.					
	Gamepad report ID (1 <sup>st</sup> report byte) is 0x03. See HID chapter for gamepad report details.					

### Example:

Gamepad buttons 1, 9, 10 are pressed, X axis = 0x20

CRC32			
0x??	0x??	0x??	0x??

CMD	PAR	HID Gan	HID Gamepad Report 1								
0x24	0x01	0x03	0x01	0x03	0x20	0x00	0x00	0x0 0			

CRC32: 4B Payload: 9B

Add 3B padding (0x00...)

Total length = 16B

# Queue mixed reports (0x25)

Short description:	Allows to send keyboard, mouse, consumer control and gamepad reports in a single packet					
CMD byte:	0x25					
Authentication required:	Yes					
Since FW version:	0.98					
PARAM:	Packet ID					
DATA:	Number of reports (max 33), Report 1 Type, Report 1 Payload, Report N Type, Report N Payload, <b>0x00</b>					
RESP_CODE:	0x01 OK					
	0x05 Max reports exceeded (33 reports)					
	0x06 Unknown report type					
RESP_DATA:	None					
Details:	Main reason for introducing this command was to allow to send several identical packets and be sure that only one will be executed. This allows to fix Android OS bug that under some conditions could corrupt data being sent to InputStick.					
	Packet ID: $0x00$ – skip ID check, accept packet other values – skip this packet if previous packet had the same Packet ID.					
	Report types:  0x00 - end of payload  0x01 - HID keyboard report (standard) (length: 8B),  0x02 - HID keyboard report (short) (length: 2B),  0x03 - keyboard press and release event (length: 2B),  0x10 - HID mouse report (length: 4B),  0x20 - HID consumer report (length: 3B),  0x30 - HID gamepad report (length: 7B).					
	If there is not enough free space to queue given packet into appropriate buffer, the packet is dropped.					

#### Example:

Send 3 packets with identical HID reports: 1 keyboard press and release key event (press and release "a" key) and 2 mouse reports (press left mouse button, release left mouse button). Indicate end by adding end of payload report type (0x00). If first packet arrives, two following packets will be ignored.

#### Packet 1, Packet 2, Packet 3:

CRC32			
0x??	0x??	0x??	0x??

CMD	PAR	Report type	Report 1	payload	Report type	Report 1	payload			Report type	Report	oayload			Report type
0x25	0x01	0x03	0x00	0x04	0x10	0x01	0x00	0x00	0x00	0x10	0x00	0x00	0x00	0x00	0x00

CRC32: 4B Payload: 16B

Add 12B padding (0x00...)

Total length = 32B

Header (no response, no encryption): 0x55, 0x02

Result: key "a" is pressed only once, left mouse button is pressed and released only once (even if all three packets will be correctly received).

When sending next set of packets, use different value of *PARAM*, for example 0x02. You can use following patterns for *PARAM*:

- 0x01, 0x02, ... 0xFF, 0x01, ...
- 0x01, 0x02, 0x01, 0x02, 0x01, ...

### Write to endpoint (0x2B)

Short description:	Puts data into endpoint directly, without buffering.						
CMD byte:	0x2B						
Authentication required:	Yes						
Since FW version:	0.97						
PARAM:	Endpoint ID						
DATA:	LENGTH, report data (LENGTH bytes)						
RESP_CODE:	0x01 OK						
	0x2A Invalid endpoint ID						
	0x2B Endpoint busy (not empty), data was dropped.						
	0x2C Data exceeds size of endpoint						
RESP_DATA:	None						
Details:	This command allows to achieve minimal possible latency, however it is possible that data will be dropped. Should be used for gamepad or mouse functionality.						
	Available endpoints (IDs):						
	0x01 – keyboard interface 0x02 – mouse interface						
	0x03 – consumer control (and gamepad) interface.						
	Data will be put into endpoint only if it is empty at the moment the command is received. Otherwise data is dropped.						

#### Example:

Put data into consumer control buffer (gamepad report: Gamepad buttons 1, 9, 10 are pressed, X axis = 0x20).

CRC32							
0x??	0x??	0x??	0x??				

CMD	PAR	Endpoi nt ID	Length	Report data						
0x24	0x01	0x03	0x07	0x03	0x01	0x03	0x20	0x00	0x00	0x0 0

CRC32: 4B Payload: 11B

Add 1B padding (0x00...)

Total length = 16B

### Queue SHORT keyboard reports (0x2C)

Short description:	Puts SHORT HID keyboard reports into buffer.					
CMD byte:	0x2C					
Authentication required:	Yes					
Since FW version:	0.97					
PARAM:	Number of "short" HID keyboard reports in packet (1 - 32)					
DATA:	PARAM * "short" HID keyboard reports (Report1, Report2, ReportPARAM					
RESP_CODE:	0x01 OK					
	0x03 Buffer overflow (no reports were put into buffer!)					
RESP_DATA:	None					
Details:	As long as you keep track of number of HID reports currently stored in buffer, there is no need to request response to this command.					
	See HID chapter for SHORT keyboard report details.					
	This command is intended for Bluetooth Low Energy hardware version.					

### Example:

Use Ctrl + Alt + Delete key combination, release all keys, follow with ESC key, release ESC key.

CRC32					
0x??	0x??	0x??	0x??		

CMD	PAR	SHORT Keyboar Report		SHORT Keyboard Report 2		Keyboard		SHORT Keyboard Report 4		SHORT Keyboard Report 5		SHORT Keyboard Report 6	
0x2C	0x06	0x05	0x00	0x05	0x4C	0x00	0x00	0x00	0x00	0x00	0x29	0x00	0x0 0

CRC32: 4B Payload: 14B

Add 14B padding (0x00...)

Total length = 32B

#### Queue Press and Release events (0x2D)

Short description:	Puts H	Puts HID keyboard reports into buffer.			
CMD byte:	0x2D	0x2D			
Authentication required:	Yes	Yes			
Since FW version:	0.97				
PARAM:	Numbe	er of "Press and Release" events in packet (1 - 10)			
DATA:	PARAM	PARAM * "Press and Release" events (event1, event2, eventPARAM			
RESP_CODE:	0x01	0x01 OK			
	0x03	Buffer overflow (no reports were put into buffer!)			
RESP_DATA:	None				
Details:		Press and Release" event is split into 3 HID keyboard reports putting into buffer.			
		As long as you keep track of number of HID reports currently stored in buffer, there is no need to request reponse to this command.  See HID chapter for "Press and Release" event details.  This command is intended for Bluetooth Low Energy hardware version.			
	See HI				

#### Example:

Type "hEllO", assume "en-US" compatible keyboard layout and CapsLock turned off.

CRC32			
0x??	0x??	0x??	0x??

CMD	PAR	Event 1		Event 2		Event 3		Event 4		Event 5	
0x2 D	0x05	0x00	0x0B	0x02	0x08	0x00	0x0F	0x00	0x0F	0x02	0x1 2

CRC32: 4B Payload: 12B Total length = 16B

(No need to add padding)

# 2. InputStick → Application:

CMD:	Required:	FW >=
USB HID Status Update (0x2F)	Y	v0.94
Restore defaults Update (0x16)	N	v0.94
Error notification (0x1F)	N	v0.97

# **USB HID Status Update (0x2F)**

Short description:	Provid	Provides status updates of USB interfaces and report buffers.					
CMD byte:	0x2F	0x2F					
Since FW version:	0.94	0.94					
DATA:	Bytes:	Description:					
	0	Device state					
	1	Keyboard LEDs					
	2	Keyboard protocol					
	3	Keyboard buffer empty					
	4	Mouse protocol					
	5	Mouse buffer empty					
	6	Consumer buffer empty					
	7	Keyboard reports sent to host					
	8	Mouse reports sent to host					
	9	Consumer reports sent to host					
	10	Reserved (0xFF)					
Details:	This coms.	This command will be sent by InputStick approximately every 100 ms.					

#### **Keyboard LEDs:**

Bit:	Description	Values
0	NumLock	0 – off, 1 - on
1	CapsLock	0 – off, 1 - on
2	ScrollLock	0 – off, 1 - on

#### Keyboard / Mouse protocol values:

Value:	Description:
0x00	report protocol
0x01	BOOT protocol

When mouse uses BOOT protocol, scroll wheel is not used. Keyboard is not affected by protocol value.

#### Keyboard / Mouse / Consumer buffer empty:

Value:	Description:
0x00	not empty

0x01 buffer is empty

Keyboard / Mouse / Consumer reports sent to host:

such number of HID reports of given type has been successfully sent to USB host (since last update packet was sent) and was removed from respective report buffer.

Usage example: see (6) examples.pdf.

# Restore defaults Update (0x16)

Short description:	Provides status updates of USB interfaces and report buffers.				
CMD byte:	0x16				
Since FW version:	0.94				
DATA:	Bytes:	Description:			
	0	RestoreStatus			
	1	RestoreProgress			
	2	TotalSteps			
	3	NextLEDs			
	4	TimeLeft			
Details:	I	command will be sent by InputStick only after "Restore ts" procedure was initiated.			
	RestoreStatus – current status of restore defaults procedure. $0x00$ – restore procedure is currently DISABLED, $0x01$ - restore procedure is currently in progress (ENABLED). $0x02$ – restore procedure was terminated due to keyboard LEDs matching requested pattern (NextLEDs).				
	Restor	eProgress – steps completed so far.			
	TotalSi	teps – total steps that must be completed.			
	1	EDs – state of Keyboard LEDs, which must be set when eft reaches 0.			
	TimeL	eft - time in seconds, until next check will be performed.			
	exactly	TimeLeft reaches 0, state of keyboard LEDs is checked. If it matches NextLEDs, restore procedure will advance to a next not it will be immediately disabled.			
	factory	all steps are completed, InputStick will be restored to a default condition and enter infinite loop. It must be ged for USB port before it can be used again.			
	Example: 0x01, 0x02, 0x0A, 0x03, 0x0E				
	Restore procedure is currently in progress (ENABLED). Completed steps: 2 out of 10. During next check, keyboard LEDs must be set following way: NumLock ON, CapsLock ON, ScrollLock OFF. Remaining time until next check: 15s.				

### Error notification (0x1F)

Short description:	Provid	Provides status updates of USB interfaces and report buffers.				
CMD byte:	0x1F	0x1F				
Since FW version:	0.97					
DATA:	Bytes:	Description:				
	010	ERROR_CODE				
Details:	This command will be sent by InputStick to notify that some sort of error occurred. Contains up to 11 most recent <i>ERROR_CODEs</i> . After sending this command, list of <i>ERROR_CODEs</i> is cleared.					

#### ERROR\_CODEs:

Value:	Description:
0x00	Empty / no error
0xE0	USB transmission error
0xE1	Invalid START_TAG
0xE2	<i>CRC32</i> of recently received packet is different from 0x0000000 (ignore check) and incorrect. Packet was dropped.

BUG (v0.97): in some cases all data bytes will be filled with the same error code, even though the error occurred only once. (fixed in v0.98)

BUG (v0.97): 0xE2 will be returned even when CRC32 was set to 0x00000000. Command will be accepted and executed anyway. (fixed in v0.98)