**Computer to Zigbee Message Format:**

| SOP | Data Length | IEEE Address | Type | Data | Check Sum |

| 1 | 1 | 8 | 1 | 0-Len | 1 |

FE 0B 00 12 4B 00 01 0B D3 D6 02 30 30 1C

|  |  |
| --- | --- |
| FE | Start byte |
| 0B | Length, Hex, Range 9 to 100  Len = sizeof (DstAddr+Type+Data) |
| 00 12 4B 00 01 0B D3 D6 | Zigbee Signature, End Device ID, Hex |
| 02 | Type, Hex, Range 0x00 to 0xFC |
| 30 30 | Data |
| 1C | Coordinator Packet CheckSum, Hex, Adding all bytes from Zigbee Signature to the last Data, Range Range 0x00 to 0xFF |

**CTRL\_TYPE\_EEPOM\_WRITE**

Brief: Type for remote change End Device AVR EEPROM Value

**Data Format (Computer to Zigbee):**

FE 11

00 12 4B 00 01 0B C8 00

C1

00 00 00 64

00 02 00 37

9E

|  |  |
| --- | --- |
| FE | Start byte |
| 11 | Length, Hex, Range 9 to 100  Len = sizeof (DstAddr+Type+Data) |
| 00124B00010BC800 | Zigbee Signature, End Device ID, Hex |
| C1 | Type, Hex, Range 0x00 to 0x0B |
| 0000 | Address of AVR EEPROM that is be written |
| 0064 | Value that writing to above AVR EEPROM |
| 9E | Coordinator Packet CheckSum, Hex, Adding all bytes from Zigbee Signature to the last Data, Range Range 0x00 to 0xFF |

\*\* Can multi-write value to one message. But do not more than 2 value, it is not stable. No QTY in the message, QTY = ( Len-9 ) / 4.

**Data Format (Zigbee to Computer):**

24 53 54

00 12 4B 00 01 0B C8 00 01

09 C1

00 00 00 64

00 02 00 37

64 0D 0A

|  |  |
| --- | --- |
| 24 53 54 | Zigbee Signature, Start byte, ASCII ($ST) |
| 00 12 4B 00 01 0B C8 00 | Zigbee Signature, End Device ID, Hex |
| 01 | Zigbee Signature, Meter ID, Hex |
| 09 | Length, Hex, Range 0x01 to 0x4F |
| C1 | Type, Hex, Range 0x00 to 0x07 |
| 0000 | Address of AVR EEPROM that is be written |
| 0064 | Value that writing to above AVR EEPROM |
| 64 | Coordinator Packet CheckSum, Hex, Adding all bytes from Zigbee Signature to the last Data, Range Range 0x00 to 0xFF |
| 0D 0A | Zigbee Signature, Stop byte |

After sending **CTRL\_TYPE\_EEPOM\_WRITE** to End device, it will send message to Coordinator. Server need to check the result. If there is no any reply or the result is incorrect, server report the result to the user.

Zigbee to AVR Message Format

03 02 30 30 ??

|  |  |
| --- | --- |
| 03 | Length, Hex, Range 1 to 100 |
| 02 | Type, Hex, Range 0x00 to 0x0B |
| 30 30 | Data |
| ?? | CheckSum, Hex, Adding all bytes from Zigbee Signature to the last Data, Range Range 0x00 to 0xFF |