信恳终端控制协议

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 应答标志位 | 流水号 | 功能序号 | IO端口 | 数据类型 | 长度 | Value |
| **命令项** | flag | Msg ID | Cmd | Port\_id | Type | Len | Port\_value |
| 1Byte | 2Byte | 2Byte | 1Byte | 1Byte | 1Byte |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能** | 应答标志位 | | 流水号 | 功能序号 | IO端口 | 数据类型 | 长度 | 高/低电平 | |
| **gpio** | flag | | Msg ID | Cmd | Port\_id | Type | Len | Port\_value | |
| 00 | | 0001 | 0010 | 05 | 00 | 01 | 01 / 00 | |
| 例1**[GPTO--OFF]**：**000001001005000100**  例2**[GPIO--ON]**：**000001001005000101** | | | | | | | | |
|  | |  | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能** | 应答标志位 | 流水号 | 功能序号 | IO端口 | 数据类型 | 长度 | PWM值[(100%)0000~FFFF(0%)] |
| **PWM** | flag | Msg ID | Cmd | Port\_id | Type | Len | Port\_value |
| 00 | 0001 | 0012 | 04 | 02 | 02 | 0000 / FFFF |
| 例1**[PWM-100%]**：**00000100120402020000**  例2**[PWM-0%]**： **0000010012040202FFFF** | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能** | 应答标志位 | 流水号 | 功能序号 | IO端口 | 数据类型 | 长度 | URL |
| **OTA** | flag | Msg ID | Cmd | Port\_id | Type | Len | Port\_value |
| 00 | 0001 | 0003 | 00 | 06 | LEN | URL |
| **00000100030006687474703a2f2f636c6f75642e737a78696e6b656e2e636f6d3a3131383** | | | | | | |