编程卡对应参数

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| --- | --- |
| Max Power 最大输出  使用数值范围1-10 | 使用u16MaxPwmDuty(Byte 13 14)取代  对应55-100%，1=55 2=60 … 10=100 |
| BOOST 启动电压  使用数值范围1-10 | 使用u16PosiDiv(79 80)取代  对应1300~400，1=1300 2=1200 … 10=400 |
| Tension 刚性  使用数值范围1-3 | 使用u16SpdKpGain(81 82)取代  1=130 2= 200 3= 270 |
| Dead Band 死区  使用数值范围1-5 | 使用u16DeadBand(55 56)取代  范围一样为1~5 |
| Force 力度  使用数值范围1-10 | 使用u16Kp(61 62) 取代  1=90, 2=100, 3=110, 4=120, 5=130, 6=155, 7=165, 8=175  , 9=185 , 10=200 |
| Brake 煞车  使用数值范围1-10 | 使用u16Kd(65 66) 取代  范围为30~120 |
| Center中位角度调整  使用数值范围±1-10 | 使用u16PtMiddle(43 44)取代  数值为2048±280us (对应±10) |
| Soft Star缓启动(OFF/ON) | On: u16InitialSpeed(91 92)设定20  u16InitialTimeOut(93 94)设定2  Off: u16InitialSpeed(91 92)设定20  u16InitialTimeOut(93 94)设定0 |

如需使用韧体型号参数

可以先利用u8ProjectName(Byte 95~110)的参数来使用，此参数可以透过UART 写入进行更改

**Read/Write Address Definition**

UART读取共会回传有126笔Byte数据

UART写入需110笔Byte数据(不需要写u8FwVer[16]，此参数无法更改)

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| Byte | 参数名称 | 范围 |
| 1  2 | u16OvdOnOff\_Low  u16OvdOnOff\_High | 0:Off, 1:On |
| 3  4 | u16OvdMaxVolt\_Low  u16OvdMaxVolt\_High | 70~200 (单位为0.1 V) |
| 5  6 | u16OvdRecVolt\_Low  u16OvdRecVolt\_High | 65~195 |
| 7  8 | u16LvdOnOff\_Low  u16LvdOnOff\_High | 0:Off, 1:On |
| 9  10 | u16LvdMinVolt\_Low  u16LvdMinVolt\_High | 0~60(单位为0.1 V) |
| 11  12 | u16LvdRecVolt\_Low  u16LvdRecVolt\_ High | 0~60(单位为0.1 V) |
| 13  14 | u16MaxPwmDuty\_Low  u16MaxPwmDuty\_High | 50~100 (单位是%) |
| 15  16 | u16MinPwmDuty\_Low  u16MinPwmDuty\_High | FW无使用，建议给0 |
| 17  18 | u16LockOnOff\_Low  u16LockOnOff\_High | 0:Off, 1:On |
| 19  20 | u16LockMaxPwmDuty\_Low  u16LockMaxPwmDuty\_High | 0~100 (单位是%) |
| 21  22 | u16LockContTime\_Low  u16LockContTime\_High | 0~6000(单位是0.1 sec) |
| 23  24 | u16LockDecay\_Low  u16LockDecay\_High | 0 ~ 100 (每sec衰减%数) |
| 25  26 | u16TempProtOnOff\_Low  u16TempProtOnOff\_High | 0:Off, 1:On |
| 27  28 | u16TempProtStart\_Low  u16TempProtStart\_High | 60 ~ 95 (degree C) |
| 29  30 | u16TempRecovery\_Low  u16TempRecovery\_High | 70 ~ 105(degree C) |
| 31  32 | u16TempCutoff\_Low  u16TempCutoff\_High | 80 ~ 200(degree C) |
| 33  34 | u16TempDecay\_Low  u16TempDecay\_High | 0 ~ 100 (每sec衰减%数) |
| 35  36 | u16PpmLossTime\_Low  u16PpmLossTime\_High | 1~50 (单位为0.1 sec) |
| 37  38 | u16PpmLossAct\_Low  u16PpmLossAct\_High | 0:free, 1:lock |
| 39  40 | u16HallFailOnOff\_Low  u16HallFailOnOff\_High | 0:Off, 1:On |
| 41  42 | u16PtMaxAngle\_Low  u16PtMaxAngle\_High | 0 ~ 360 (degree C) |
| 43  44 | u16PtMiddle\_Low  u16PtMiddle\_High | 1048 ~ 3048 (ADC 数值)  一般为2048 |
| 45  46 | u16PulseCentralTime\_Low  u16PulseCentralTime\_High | 200~1600 (us) |
| 47  48 | u16PulseHigherTime\_Low  u16PulseHigherTime\_High | 300~2700(us) |
| 49  50 | u16PulseHigherAng\_Low  u16PulseHigherAng\_High | 2100~3600(30~180 degree C)  : 2100/10-180=30 |
| 51  52 | u16PulseLowerTime\_Low  u16PulseLowerTime\_High | 0~2700(us) |
| 53  54 | u16PulseLowerAng\_Low  u16PulseLowerAng\_High | 0~1800(-180~0 degree C) |
| 55  56 | u16DeadBand\_Low  u16DeadBand\_High | 1~5 |
| 57  58 | u16MotDrvLogic\_Low  u16MotDrvLogic\_High | 0:L, 1:H |
| 59  60 | u16PtDrvLogic\_Low  u16PtDrvLogic\_High | 0:L, 1:H |
| 61  62 | u16Kp\_Low  u16Kp\_High | 0~65535 |
| 63  64 | u16Ki\_Low  u16Ki\_High | FW无使用，建议给0 |
| 65  66 | u16Kd\_Low  u16Kd\_High | 0~65535 |
| 67  68 | u16LoopSamplingTime\_Low  u16LoopSamplingTime\_High | FW无使用，建议给0 |
| 69  70 | u16MaxPwmDutyViSat\_Low  u16MaxPwmDutyViSat\_High | FW无使用，建议给0 |
| 71  72 | u16SleepMinPwmDutyVdl\_Low  u16SleepMinPwmDutyVdl\_High | FW无使用，建议给0 |
| 73  74 | u16SleepContTime\_Low  u16SleepContTime\_High | FW无使用，建议给0 |
| 75  76 | u16WakeupMaxPwmDutyVdh\_Low  u16WakeupMaxPwmDutyVdh\_High | FW无使用，建议给0 |
| 77  78 | u16WakeupEmaxDegree\_Low  u16WakeupEmaxDegree\_High | FW无使用，建议给0 |
| 79  80 | u16PosiDiv\_Low  u16PosiDiv\_High | 0~65535 cnt |
| 81  82 | u16SpdKpGain\_Low  u16SpdKpGain\_High | 0~65535 cnt |
| 83  84 | u16MotorFreeErr\_Low  u16MotorFreeErr\_High | 0~65535 cnt |
| 85  86 | u16MotorFreeTime\_Low  u16MotorFreeTime\_High | 0~65535 ms |
| 87  88 | u16SpdKdGain\_Low  u16SpdKdGain\_High | 0~65535 cnt |
| 89  90 | u16SpdDiv\_Low  u16SpdDiv\_High | 0~65535 cnt，建议设1，此参数通常不调整 |
| 91  92 | u16InitialSpeed\_Low  u16InitialSpeed\_High | 0~65535 cnt |
| 93  94 | u16InitialTimeOut\_Low  u16InitialTimeOut\_High | 3~60 sec |
| 95  |  110 | u8ProjectName[16] | FW型号名称，型态为字符串 |
| 111  |  126 | u8FwVer[16] | FW版本名称，型态为字符串 |