**MON32模块参数表格式（内部定义）**

**存储格式定义**

1. 地址分配：0x0000~0x0FFF存放模块电子标签信息，0x1000~0x2FFF存放参数表，0x3000~0x3FFF存放FW内部使用数据。
2. 表格中的数据存储，采用大字节优先方式。比如存储数据为0x12345678，则地址（Addr）填0x12，地址（Addr+1）填0x34，地址（Addr+2）填0x56，地址（Addr+3）填0x78。
3. 光开关标定数据为负时，使用补码表示，例如-70，表示为0xFFFFFFBA
4. 模块电子标签格式定义如下：

分为5项内容，每项内容以字符串表示（无内容填充0x20）:

1. 模块SN信息，地址0x00~0x0F
2. 模块生产日期， 地址0x10~0x1F
3. 模块PN信息，地址0x20~0x2F
4. 厂家名称，地址0x30~0x3F
5. 硬件版本号，地址0x40~0x4F

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EEPROM偏移地址 | 数字0～F表示EEPROM地址的最后一位，用X表示 | | | | | | | | | | | | | | | | | |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | A | B | C | | D | E | F |
| 参数表：光开关标定数据 | | | | | | | | | | | | | | | | | | |
| 0x100X | SW1输入1输出1通道的X值 | | | | SW1输入1输出通道1的Y值 | | | | SW1输入1输出2通道的X值 | | | | | SW1输入1输出2通道的Y值 | | | | |
| 0x100X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x101X | SW1输入1输出3通道的X值 | | | | SW1输入1输出3通道的Y值 | | | | SW1输入2输出1通道的X值 | | | | | SW1输入2输出1通道的Y值 | | | | |
| 0x101X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x102X | SW1输入2输出2通道的X值 | | | | SW1输入2输出2通道的Y值 | | | | SW1输入2输出3通道的X值 | | | | | SW1输入2输出3通道的Y值 | | | | |
| 0x102X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x103X | SW2通道1的X值 | | | | SW2通道1的Y值 | | | | SW2通道2的X值 | | | | | SW2通道2的Y值 | | | | |
| 0x103X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x104X | SW2通道3的X值 | | | | SW2通道3的Y值 | | | | SW2通道4的X值 | | | | | SW2通道4的Y值 | | | | |
| 0x104X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x105X | SW2通道5的X值 | | | | SW2通道5的Y值 | | | | SW2通道6的X值 | | | | | SW2通道6的Y值 | | | | |
| 0x105X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x106X | SW2通道7的X值 | | | | SW2通道7的Y值 | | | | SW2通道8的X值 | | | | | SW2通道8的Y值 | | | | |
| 0x106X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x107X | SW2通道9的X值 | | | | SW2通道9的Y值 | | | | SW2通道10的X值 | | | | | SW2通道10的Y值 | | | | |
| 0x107X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x108X | SW2通道11的X值 | | | | SW2通道11的Y值 | | | | 预留 | | | | | 预留 | | | | |
| 0x108X |  |  |  |  |  |  |  |  | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| 中间的地址填充格式同SW2，依次填充到SW4，每个SW有11通道  ......................................................................................................................................................................................................................................  SW3标定数据地址范围：0x1090 ~0x10EF  SW4标定数据地址范围：0x10F0 ~0x114F | | | | | | | | | | | | | | | | | | |
| 0x115X | SW5输入1输出1通道的X值 | | | | SW5输入1输出通道1的Y值 | | | | SW5输入1输出2通道的X值 | | | | | SW5输入1输出2通道的Y值 | | | | |
| 0x115X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x116X | SW5输入1输出3通道的X值 | | | | SW5输入1输出3通道的Y值 | | | | 预留 | | | | | 预留 | | | | |
| 0x116X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x117X | SW6通道1的X值 | | | | SW6通道1的Y值 | | | | SW6通道2的X值 | | | | | SW6通道2的Y值 | | | | |
| 0x117X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x118X | SW6通道3的X值 | | | | SW6通道3的Y值 | | | | SW6通道4的X值 | | | | | SW6通道4的Y值 | | | | |
| 0x118X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x119X | SW6通道5的X值 | | | | SW6通道5的Y值 | | | | SW6通道6的X值 | | | | | SW6通道6的Y值 | | | | |
| 0x119X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x11AX | SW6通道7的X值 | | | | SW6通道7的Y值 | | | | SW6通道8的X值 | | | | | SW6通道8的Y值 | | | | |
| 0x11AX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x11BX | SW6通道9的X值 | | | | SW6通道9的Y值 | | | | SW6通道10的X值 | | | | | SW6通道10的X值 | | | | |
| 0x11BX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x11CX | SW6通道11的X值 | | | | SW6通道11的X值 | | | | 预留 | | | | | 预留 | | | | |
| 0x11CX |  |  |  |  |  |  |  |  | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| 中间的地址填充格式同SW6，依次填充到SW8，每个SW有11通道  ......................................................................................................................................................................................................................................  SW7标定数据地址范围：0x11D0 ~0x122F  SW8标定数据地址范围：0x1230 ~0x128F | | | | | | | | | | | | | | | | | | |
| 参数表：TOSA标定数据 | | | | | | | | | | | | | | | | | | |
| 0x129X | TOSA DAC 1 | | | | TEC DAC 1 | | | | Tap PD ADC 1 | | | | | Tap PD Power 1 | | | | |
| 0x129X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x12AX | TOSA DAC 2 | | | | TEC DAC 2 | | | | Tap PD ADC 2 | | | | | Tap PD Power 2 | | | | |
| 0x12AX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x12BX | TOSA DAC 3 | | | | TEC DAC 3 | | | | Tap PD ADC 3 | | | | | Tap PD Power 3 | | | | |
| 0x12BX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x12CX | TOSA DAC 4 | | | | TEC DAC 4 | | | | Tap PD ADC 4 | | | | | Tap PD Power 4 | | | | |
| 0x12CX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x12DX | TOSA DAC 5 | | | | TEC DAC 5 | | | | Tap PD ADC 5 | | | | | Tap PD Power 5 | | | | |
| 0x12DX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x12EX | TOSA DAC 6 | | | | TEC DAC 6 | | | | Tap PD ADC 6 | | | | | Tap PD Power 6 | | | | |
| 0x12EX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x12FX | TOSA DAC 7 | | | | TEC DAC 7 | | | | Tap PD ADC 7 | | | | | Tap PD Power 7 | | | | |
| 0x12FX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x130X | TOSA DAC 8 | | | | TEC DAC 8 | | | | Tap PD ADC 8 | | | | | Tap PD Power 8 | | | | |
| 0x130X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x131X | TOSA DAC 9 | | | | TEC DAC 9 | | | | Tap PD ADC 9 | | | | | Tap PD Power 9 | | | | |
| 0x131X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x132X | TOSA DAC 10 | | | | TEC DAC 10 | | | | Tap PD ADC 10 | | | | | Tap PD Power 10 | | | | |
| 0x132X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x133X |  | | | |  | | | |  | | | | |  | | | | |
| 0x133X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x134X |  | | | |  | | | |  | | | | |  | | | | |
| 0x134X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 参数表：光开关插损标定数据 | | | | | | | | | | | | | | | | | | |
| 0x135X | 2x32第1路插损值 | | | | 2x32第2路插损值 | | | | 2x32第3路插损值 | | | | | 2x32第4路插损值 | | | | |
| 0x135X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 中间的地址填充格式同2x32第1路插损值，依次填充到第60路插损值  ...................................................................................................................................................................................................................................... | | | | | | | | | | | | | | | | | | |
| 0x144X | 2x32第61路插损值 | | | | 2x32第62路插损值 | | | | 2x32第63路插损值 | | | | | 2x32第64路插损值 | | | | |
| 0x144X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x145X | 1x32第1路插损值 | | | | 1x32第2路插损值 | | | | 1x32第3路插损值 | | | | | 1x32第4路插损值 | | | | |
| 0x145X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 中间的地址填充格式同1x32第1路插损值，依次填充到第28路插损值  ...................................................................................................................................................................................................................................... | | | | | | | | | | | | | | | | | | |
| 0x14CX | 2x32第29路插损值 | | | | 2x32第30路插损值 | | | | 2x32第31路插损值 | | | | | 2x32第32路插损值 | | | | |
| 0x14CX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x14DX | 环回插损值 | | | |  | | | |  | | | | |  | | | | |
| 0x14DX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x14EX |  | | | |  | | | |  | | | | |  | | | | |
| 0x14EX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x14FX |  | | | |  | | | |  | | | | |  | | | | |
| 0x14FX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 参数表：接收PD标定数据 | | | | | | | | | | | | | | | | | | |
| 0x150X | 接收PD光功率1ADC值 | | | | 接收PD光功率1 | | | | 接收PD光功率2ADC值 | | | | | 接收PD光功率2 | | | | |
| 0x150X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x151X | 接收PD光功率3ADC值 | | | | 接收PD光功率3 | | | | 接收PD光功率4ADC值 | | | | | 接收PD光功率4 | | | | |
| 0x151X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x152X | 接收PD光功率5ADC值 | | | | 接收PD光功率5 | | | | 接收PD光功率6ADC值 | | | | | 接收PD光功率6 | | | | |
| 0x152X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x153X | 接收PD光功率7ADC值 | | | | 接收PD光功率7 | | | | 接收PD光功率8ADC值 | | | | | 接收PD光功率8 | | | | |
| 0x153X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x154X | 接收PD光功率9ADC值 | | | | 接收PD光功率9 | | | | 接收PD光功率10ADC值 | | | | | 接收PD光功率10 | | | | |
| 0x154X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x155X |  | | | |  | | | |  | | | | |  | | | | |
| 0x155X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x156X |  | | | |  | | | |  | | | | |  | | | | |
| 0x156X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 参数表：历史告警 | | | | | | | | | | | | | | | | | | |
| 0x157X | 历史告警1 | | | | 历史告警2 | | | | 历史告警3 | | | | | 历史告警4 | | | | |
| 0x157X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x158X | 历史告警5 | | | | 历史告警6 | | | | 历史告警7 | | | | | 历史告警8 | | | | |
| 0x158X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x159X | 历史告警9 | | | | 历史告警10 | | | | 预留 | | | | | 预留 | | | | |
| 0x159X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x15AX |  | | | |  | | | |  | | | | |  | | | | |
| 0x15AX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x15BX |  | | | |  | | | |  | | | | |  | | | | |
| 0x15BX |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| FW内部使用数据 | | | | | | | | | | | | | | | | | | |
| 0x300X | 升级功能使用 | | | | | | | | | | | | | | | | | |
| 0x300X | 0xA5 | 0xA5 | 0x5A | 0x5A |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x301X | 升级功能使用 | | | | | | 预留 | | | | | | | | | | | |
| 0x301X |  |  |  |  |  |  | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| 0x302X | 日志功能使用 | | | | | | | | | | | | | | | | | |
| 0x302X | 0xA5 | 0xA5 | 0x5A | 0x5A |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x303X | 日志功能使用 | | | | 预留 | | | | | 预留 | | | | | 日志功能使用 | | | |
| 0x303X |  |  |  |  |  |  |  |  |  | |  |  |  | 0xA5 | | 0xA5 | 0x5A | 0x5A |
| 0x304X | 历史告警功能使用 | | | | | | 预留 | | | | | | | | | | | |
| 0x304X | 0xA5 | 0xA5 | 0x5A | 0x5A |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x305X |  | | | |  | | | |  | | | | |  | | | | |
| 0x305X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x306X |  | | | |  | | | |  | | | | |  | | | | |
| 0x306X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |
| 0x307X |  | | | |  | | | |  | | | | |  | | | | |
| 0x307X |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |