**MPDU 2017智能产品功能清单**

1. **产品描述**

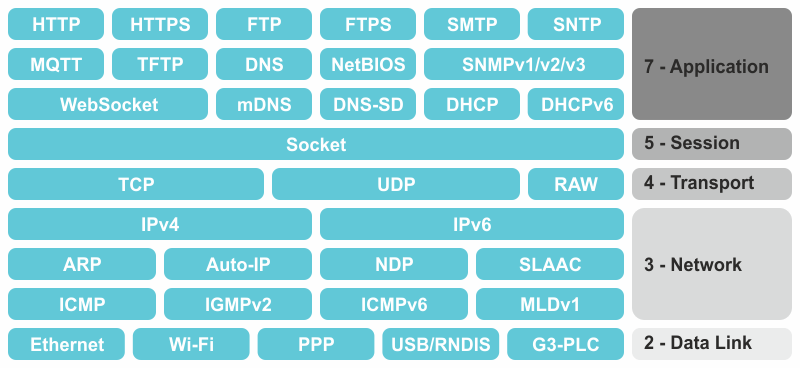
主控模组可热插拔，输出模组可冷更换。

1. **产品规格**

|  |  |  |
| --- | --- | --- |
| **主要功能** | | **基本描述** |
| **输入特性** | 标准输入电压 | 100-240V, 380V |
| 最大输入电流 | 16A, 32A, 63A, 3x16A, 3x32A |
| 标准输入频率 | 50-60Hz |
| **输出特性** | 输出插座类型 | (21) IEC 320 C13 & (3) IEC 320 C19  (18) IEC 320 C13 & (6) IEC 320 C19  (20) IEC 320 C13 & (4) IEC 320 C19  (18) GB1002 10A & (6) GB1002 16A  (24) GB1002 10A |
| **过载保护** | 每组回路设有16A断路器保护功能 | |
| **产品尺寸（长宽高）** | 1850 x 56 x 52mm | |

1. **主要功能表**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **主要功能** | | **描述** | **产品分类** | | | |
| **Monitored** | **Per Port Monitored** | **Switched** | **Per Port Monitored and Switched** |
| 监测功能 | 输入 | 总负载电流 | ● | ● | ● | ● |
| 总输入电压 | ● | ● | ● | ● |
| 总电能计量 | ● | ● | ● | ● |
| 总负载功率 | ● | ● | ● | ● |
| 功率因数 | ● | ● | ● | ● |
| 输出 | 每位/组输出单元的负载电流 |  | ● |  | ● |
| 每位/组输出单元的电能计量 |  | ● |  | ● |
| 每位/组输出单元的负载功率 |  | ● |  | ● |
| 每个回路输出的负载电流 | ● | ● | ● | ● |
| 每个回路输出的电能计量 | ● | ● | ● | ● |
| 每个回路输出的负载功率 | ● | ● | ● | ● |
| 每个回路空开的开关状态 | ● | ● | ● | ● |
| 动环 | 机柜两个点温湿度监测 | ● | ● | ● | ● |
| RJ45/RS485 扩充槽 | ● | ● | ● | ● |
| 控制功能 | | 每位/组输出单元的开/关控制 |  |  | ● | ● |
| 主动式过载保護 |  |  | ● | ● |
| 阀值设置 | 输入 | 总负载电流的上,下限设置 | ● | ● | ● | ● |
| 总负载电流的上,下限设置 | ● | ● | ● | ● |
| 总输入电压上下限设置 | ● | ● | ● | ● |
| 总电能计量清零设置 | ● | ● | ● | ● |
| 输出 | 每个回路输出负载电流的上，下限设置 | ● | ● | ● | ● |
| 每位/组输出单元负载电流的上，下限设置 |  | ● |  | ● |
| 总电能计量清零设置 | ● | ● | ● | ● |
| 每个回路输出电能计量清零设置 | ● | ● | ● | ● |
| 每位/组输出单元的电能计量清零设置 |  | ● |  | ● |
| 每位/组单元的定时开关时间设置 |  |  | ● | ● |
| 每位/组单元的定时开关间隔延时时间设置 |  |  | ● | ● |
| 输出单元分组设置 |  | ● |  | ● |
| 系统 | 温，湿度上，下限的设置 | ● | ● | ● | ● |
| 批量快速设置与备份 | ● | ● | ● | ● |
| 邮件告警地址设置 | ● | ● | ● | ● |
| 网络参数设置 | ● | ● | ● | ● |
| 用户管理 | 用户权限设定 | ● | ● | ● | ● |
| 输出端口控制权限设定 |  |  | ● | ● |
| 电能计量清零权限设定 | ● | ● | ● | ● |
| 告警功能 | 信息 | 总负载电压过欠压告警 | | | | |
| 总负载电流过流告警（一般） | | | | |
| 总负载电流过流告警（严重） | | | | |
| 每位/组输出单元电流过流告警（一般） | | | | |
| 每位/组输出单元电流过流告警（严重） | | | | |
| 每个回路输出单元电流过流告警（一般） | | | | |
| 每个回路输出单元电流过流告警（严重） | | | | |
| 方式 | 本机显示屏提示 | | | | |
| 蜂鸣器蜂鸣告警 | | | | |
| Web界面状态告警 | | | | |
| 自动发送E-mail至系统管理员 | | | | |
| 通过手机发送告警信息至系统管理员 | | | | |
| SNMP发送告警状态信息 | | | | |
| 访问方式 | | Web监控 | | | | |
| SNMP监控 | | | | |
| MOBUS监控 | | | | |
| 日志记录 | | 总电流超限报警日志记录与查询 | | | | |
| 分电流超限报警日志记录与查询 | | | | |
| 总电压超限报警日志记录与查询 | | | | |
| 温湿度超限报警日志记录与查询 | | | | |
| 温湿度日志记录与查询 | | | | |
| 用户登录操作日志记录与查询 | | | | |
| 设备设置操作日志记录与查询 | | | | |
| 删除用户操作日志记录与查询 | | | | |
| 新建用户操作日志记录与查询 | | | | |
| 新建组操作日志记录与查询 | | | | |
| 删除组操作日志记录与查询 | | | | |
| 开关控制操作日志记录与查询 | | | | |
| 指定时间的总电流日志记录与查询 | | | | |
| 指定时间的分电能用量日志记录与查询 | | | | |
| 文档、表格、图形等格式的日志记录文件查询与导出 | | | | |
| 系统支持 | | 多用户操作系统，多浏览器兼容 | | | | |
| 中英文版本可选 | | | | |
| 重启时每位/组输出单元的原状态保持功能 | | | | |
| 可远端升级，大批量升级 | | | | |
| 主控模组可热插拔；输出模组可冷更换 | | | | |
| 支持多用户，分设管理权限 | | | | |
| 支持网路协议如下 | | | | |
| 支持网路第三方服务器LDAP,Syslog,TACACS+,RADIUS | | | | |
| 满足大批量布署，集中监控，组态配置，升级 | | | | |



* Built-in support for multiple network interfaces
* BSD style socket API
* Blocking/non-blocking socket operation and event-driven functions (select and poll)
* Efficient data transfer through zero copy
* Well-crafted TCP module with selective ACK and congestion control
* Raw socket interface
* Multicast support (IGMPv2 and MLDv1)
* IP fragmentation and reassembly support
* Flexible memory footprint
* High throughput
* Dialog-based configuration wizard
* Portable architecture (no processor dependencies)
* Straightforward port to any RTOS
* Debugging and trace functionality to ease development and integration
* Host name resolution (DNS, mDNS and NetBIOS Name Service)
* mDNS and NetBIOS responder
* DNS-based service discovery (DNS-SD)
* Auto-IP (dynamic configuration of IPv4 link-local addresses)
* DHCP client
* SLAAC (IPv6 stateless address autoconfiguration )
* DHCPv6 client and relay agent
* FTP client
* Secure FTPS client (both implicit and explicit security modes supported)
* FTP server
* MQTT v3.1.1 client (TCP, SSL/TLS, WebSocket and secure WebSocket transport layers supported)
* Web server with SSI and CGI scripting
* Secure Web server (HTTPS)
* SMTP client
* Network time synchronization (SNTP client)
* SNMPv1/SNMPv2c/SNMPv3 agent (MD5/SHA-1 authentication and DES/AES privacy protocols are supported)
* TFTP server
* WebSockets client API (WebSocket connections tunneled over SSL/TLS supported)
* PPP (Point-to-Point Protocol)

|  |  |  |  |
| --- | --- | --- | --- |
| 网络协议 | 支持 | 网络协议 | 支持 |
| HTTP |  | NTP | ○ |
| HTTPS |  | TACACS+ | ○ |
| TLS |  | RADIUS | ○ |
| SSL |  | ARP |  |
| TELNET |  | ICMP |  |
| SSH | ○ | ICMPv6 | ○ |
| SSL v3/TLS v1 |  | NDP | ○ |
| SSH v2 | ○ | TCP |  |
| SNMP v1/v2/v3 |  | UDP |  |
| IP v4 |  | DNS |  |
| IP v6 | ○ | SMTP |  |
| LDAP v3/LDAPS | ○ | SMTPS |  |
| DHCP |  | SYSLOG | ○ |
| SERIAL |  | FTP |  |
| Modbus RTU |  | SFTP | ○ |
| Modbus TCP |  | RSTP |  |

**四、主要显示功能**

|  |  |  |  |
| --- | --- | --- | --- |
| 显示 | LCD | WEB | Clever Manager |
| IP地址 |  |  |  |
| Mac地址 | ○ | ○ | ○ |
| 软件版本升级 | ○ |  |  |
| 系列号 | ○ | ○ | ○ |
| 产品编码 |  |  |  |
| 均方根值电压 |  |  |  |
| 最小均根电压 | ○ |  |  |
| 最大均根电压 | ○ |  |  |
| 峰值均根电压 | ○ | ○ | ○ |
| 均方根值电流 |  |  |  |
| 最小均根电流 | ○ |  |  |
| 最大均根电流 | ○ |  |  |
| 峰值均根电流 | ○ | ○ | ○ |
| 有效功率 | ○ | ○ | ○ |
| 视在功率 |  |  |  |
| 电能 |  |  |  |
| 功率因数 | ○ |  |  |
| 频率 | ○ | ○ | ○ |
| 温度 |  |  |  |
| 湿度 |  |  |  |