

Reliable,Simple,Economical,Multifunctional,  
Professional PLC on sale!



## Multifunction

- 256K ROM, 16K EEPROM.
- 2-path 100K, 4-path 10K, Total Pulse 200KHz.
- Two COM Port: RS422/RS485(optional).
- Can choose Transistor or Relay.
- USER LAD 16K step.
- Highspeed than Peer PLC: LD:0.1 us, MOV: 1.5us.
- CANOPEN Analog Extension Module.

## Reliable,at ease

- Use mature SoC Scheme, Reliable Scheme is the base of quality.
- Adopt High quality parts and quality control procedures, Make high-quality HMI.
- Simple inner Structure, Wiring convenient and reliable.

## Simple,easily use

- Relay symbols method + SFC, Support interrupt mode.
- Compatible with other PLC programming software, LAD program can be used directly.
- Wiring convenient, Simple operation.
- Support online Simulation test.

## Economic, compete

- Research and development HMI successful experience and mature channel let we have lower cost.
- Provide independent brand of HMI + PLC full solutions, More competitive.
- Good pre-sale service can Save more time.

## Service, safer

- Customise Special control equipment and solutions.
- Professional service team, timely service reduce the cost.
- Free offer mature solution in all kinds of industry, improve the pre-sale efficiency.

## PLC Function

### MAX-200K HSPPO

Two independent path, the max HSPPO is 200k  
Support PWM and Trapezoid acceleration and deceleration



### Rich Component

- Timer: 64-point
- Auxiliary Relay: 512-point
- Counter: 53-point
- Data register: 256-point
- Status Register: 128-point

### RTC(Real-time Clock)

- Support RTC, keep more than 3 years when power-off

### Support MODBUS

- Support MODBUS RTU MASTER/SLAVE
- Can communicate with inverter



### Rich extended function

- Support extended IO & Analog quantity module
- Support extended Commute & Temper module
- Support extended module max 8 (except IO)



### High-speed Counting

- Hardware counting: 2-path Max 200KHz, 1-path AB phase
- Software counting: 2-path 100K, 4-path 10K, Total pulse 200KHz
- Support 2-path AB phase

### Interrupt Function

Outer, Timer, Counter Interrupter  
Can make special operate when interrupter

- X0-X5 6-path input can use as Outer Interrupter
- 3 indie Timer interrupt
- 6 indie Counter interrupt

### Programming Ability

- Rich PLC instruction, compatible with brand PLC
- Support off-line simulation, online simulation test
- Support program encryption, protect intellectual rights

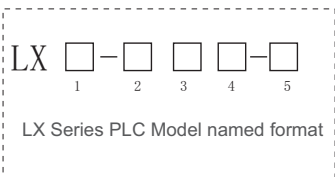
### High-speed Operating

- Basic instruction: 0.1us/ins
- Apply instruction: 1us/ins

LX Series PLC model  
named format method

PLC Terminal  
principle diagram

| PLC PRODUCTS



LX Series PLC basic unit and expansion unit models made  
of letters and numbers,format as shown:

①~⑤meaning explain as follows:

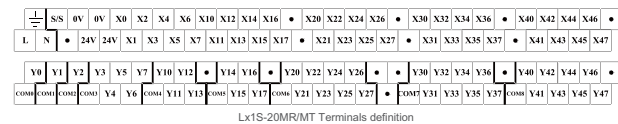
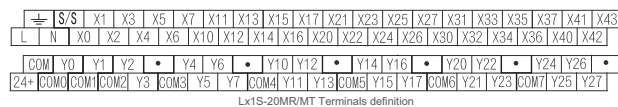
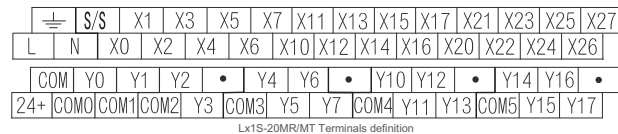
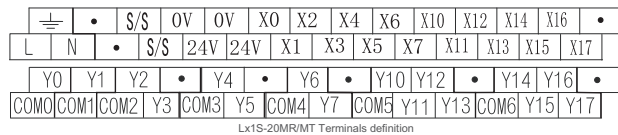
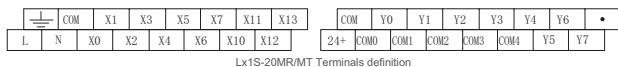
①Series name: ex 1S、2N

②I/O totalpoint number: 14~256

③Element Type: M-basic element, EX-in extended module, EY-out  
extended module,E-IO mix-extended element or module.

④Output Form:R-Relay output,Ti-Transistor output.

⑤Adapt type or Special breed ("Z"=two COM;"U"=null COM).



## Specification

| MODEL             | Specification          | Lx1S-20MT/MR                                                                        | Lx2N-32MT/MR                                                                        | Lx2N-40MT/MR                                                                        | Lx2N-60MT/MR                                                                        | Lx2N-80MT/MR                                                                        |
|-------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Photo             |                        |  |  |  |  |  |
| Physical Size     |                        | 75 × 75 × 90mm                                                                      | 170 × 90 × 88mm                                                                     | 170 × 90 × 88mm                                                                     | 220 × 90 × 88mm                                                                     | 265 × 90 × 88mm                                                                     |
| Integrate IO      | Input                  | 12                                                                                  | 16                                                                                  | 20                                                                                  | 36                                                                                  | 40                                                                                  |
|                   | Output                 | 8                                                                                   | 16                                                                                  | 20                                                                                  | 24                                                                                  | 40                                                                                  |
| Memory            | Program Memory         | 256K                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | Power-off keep Memory  | 16K                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Extension Module  |                        | Not extensible                                                                      | Extensible                                                                          | Extensible                                                                          | Extensible                                                                          | Extensible                                                                          |
| High-speed Count  | One-phase              | 2-path MAX 200KHz                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | AB-phase Mode          | Support 1-path AB-phase                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Software to count | Counter                | 2-path 100K, 4-path10K,totall plusne 200KHz                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | Working Mode           | Support 2-path AB-phase                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| ISPP0             |                        | Support 2-path MAX 200KHz, Support PWM, Support Elevator deceleration               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Software Function | Interrupt              | Timer interrupt/Local IO interrupt/Counter interrupt                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | IO refresh method      | Support End instruction batch/Support IO real-time refresh Command/Pulse Capture    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | Programme method       | Relay symbol Method/SFC, support interrupt                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | RTC                    | Built-in battery, support long-term RTC operation                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | Power save             | Keep flash forever, more than ten years                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | User LAD Volume        | 16K step                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Run speed         | Basic instruction      | 0.1us/ins                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | INT Operate            | 14us/ins                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Hardware          |                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Power             | Power                  | Output Power 30W                                                                    | Output Power 50W                                                                    | Output Power 50W                                                                    | Output Power 50W                                                                    | Output Power 50W                                                                    |
|                   | Voltage Rating         | AC100-240V                                                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | Voltage Range          | AC85-264V                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | FUSE                   | 250V 1A                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | Allow power-off time   | Less 10MS will power-off, PLC can work                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Sensors Power     | Output Power           | DC24V 400mA                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | Isolation (CPU&Sensor) | Isolation power                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Communication     |                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| COM               | COM1                   | RS422 ( Programming interface, HMI commonly used COM Port)                          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | COM2                   | RS485 Support Modbus, IML, Invenor, etc communication (optional)                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                   | CAN                    |                                                                                     | Though BOARD to extended                                                            |                                                                                     |                                                                                     |                                                                                     |

Application

For example:

Tower crane black box

Tower crane is common lifting equipment in construction site,the security of tower crane is very important.Black box is installed in tower crane to monitor the behaviour of tower crane,safety bureau can get the running status of all each tower crane in real time,if the production department overload use the tower crane,black box will issue the alarm information to safety bureau,Our HMI not only can monitor the running status of tower crane, but also can give the appropriate data to operator,let operator control it standardly,produce safely and hmi also is responsible for the exchange data between safety supervision department and black box.



Textile machinery industry

Textile machinery is machinery device with high automatic level,the requirement for HMI:high response rates,more accurate equipment action,more intuitive operating interface;meantime,must come with data management function to meet the requirement of operator.



Intelligent breeding

Intelligent breeding consist of main computer administrative system,automatic control systems,data acquisition system,live sensor and other parts.HMI can integrated monitor the fram in real time,include the temperature,humidity, concentrations of carbon dioxide ,concentration of oxygen,light intensity,pressure and others,meantime,can automatically or manualcontrol indoor temperature,humidity,Harmful gas concentration,light intensity, make animals live comfortably and improve economic benefit.



Dividing and cutting machine

Dividing and cutting machine is a device that can cut the paper or thin film into more narrow material,usually used in paper making machinery and package printing machinery.HMI can monitor all parameter in real time and set all kind of anticipating alarm value of exception parameters,such as the speed of sending paper,set the alarm value 1 meter/second,then hmi will issue the alarm once the speed exceed 1 meter/second,can discover the fault or employee's error operating in advance to avoid over speed.