

# Motion control

## EtherCAT PLC controller

优化您的设备开发



高速多轴



通讯丰富



精准控制



省心易用



澎湃算力



EtherCAT



With the rise of Industry 4.0 and real-time control RTOS concept, the development trend of motion control system is easy to use, miniaturization, cost-effective and other characteristics, Lingchen launched a new generation of LC1200 series motion controllers. Combined with CODESYS industrial automation software platform, motion control technology and information technology are integrated to better serve non-standard automation, 3C, photovoltaic, logistics, lithium.....

### 1200 series motion controller

**Cortex-A7 Dual-Core CPU**

With high computing power, rich fieldbus, expansion ability, powerful motion control function



#### High computing power:

Choose international famous brand high-end processor, 1G main frequency, dual-core processor.

#### Rich fieldbus:

EtherCAT/EtherNetIP/OPC UA\_Server/ is supported  
ModbusTCP/Modbus Serial port protocol

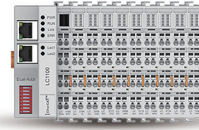
#### Expansion capability:

Expand LD1100 series IO module locally or remotely  
Expanded LC1100 series and LD1100 series control modules.

#### Powerful motion control functions:

G code execution with CNC functions such as linear/circular/spiral interpolation;  
Electronic gear and electronic CAM multi-axis linkage;  
Basic single-axis motion standard function block.

## technical specification



LC1200 Series product specifications		
System	Processor	Cortex-A7 Dual core main frequency 1G
	Memory	DDR3L 1GB
	Hard disk storage	8 GB
	Operating system	Linux
	Power down hold space	512KB
	User program storage space	8MB
	User data storage space	16MB
Interface	network	LAN1 1000Mbps LAN2/LAN3 100Mbps 2路Ethernet, 1路EtherCAT
	serial port	2x RS485; 1x RS232,
	USB	1x USB HOST 2.0
	TF	USB
	LED	POWER、SYS、RUN、ERR、IO
	IO	16x DI ; 16x DO
	button	KEY- Run/Stop; KEY-RST
	RTC	support
	Extend interface	The local I/ O expansion interface expands the LD1100 series DI/DO and AI/AO module
Motion control	control axis	8axis、16axis、32axis
	EC synchronization jitter	+/-50μs
	EC DC method	Servo DC-Distributed clock
	EC transmission distance	<100m
	EC transmission speed	100Mbit/s
	EC synchronization period	500μs (1ms 8axis 2ms 16axis 4ms 32axis)
	Dual master station function	unsupport
	power	24V DC(±20 %) 1A
Power	size	192 x 90 x 71(mm <sup>3</sup> )
Mechanical	operating temperature	0...+50℃
Ambient temperature	storage temperature	-40...+75℃
	relative humidity	95%
	environmental suitability	IEC 61131-2
Others	EMC	IEC 61131-2/GB 4824
	Class	IP 20