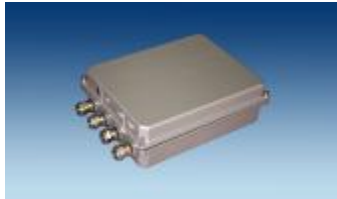# NCS-MPLC Micro-controller

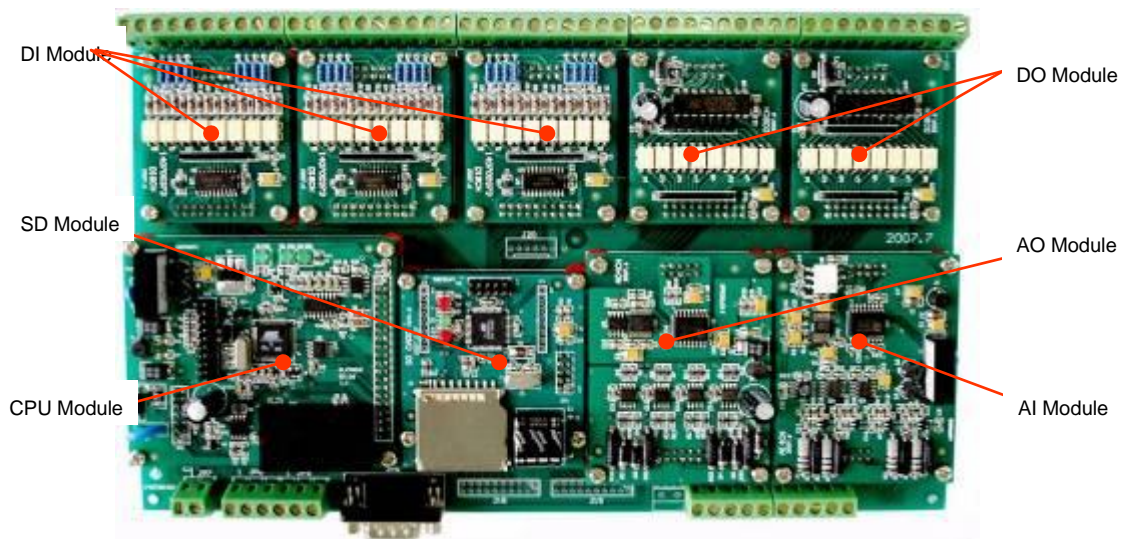**Product outline**

NCS-MPLC Series Controller is a special programmer logic controller. It has small size with low cost, high performance and low power consumption. It is very easy to use and maintenance. It can be widely used in the equipment control, include plastics machinery, printing machinery, spin machinery, packing machinery, numerical control machinery, central air-conditioning, building automation and etc.

Product structure

NCS-MPLC Micro-controller consists of backboard, CPU module, DI module, DO module, AI module, AO module and SD module. All the modules are installed on the backboard by the contact pin.

Features

Module	Model	Feature
CPU	NCS-MPLC-101	Power: 24VDC
		One RS485 Slave Interface
		One RS485 Mater Interface
		Flash: 100K bytes
		Global Data: 2K bytes

		Internal Data: 32K bytes
		Scan rate: user define, 1ms minimize
		Instruction execute time: 0.6-1.6us
		Program download bumpless
		Support Modbus RTU protocol
DI	NCS-MPLC-201	8 channels
		Optocoupler isolate
		Input voltage/current: DC24V/5mA
		Input impedance: 5.1KΩ
DO	NCS-MPLC-301	8 channels
		Optocoupler isolate
		Input voltage/current: DC24V/100mA
		Power: 12-24VDC
AI	NCS-MPLC-401	4 channels
		Input: 4-20mA or 0-10V
		Resolution: 16bits
		Precision: 0.1%
		Update rate: 5ms/channel
AO	NCS-MPLC-501	4 channels
		Output: 4-20mA
		Resolution: 12bits
		Precision: 0.1%
SD	NCS-MPLC-801	Standard SD card interface
		FAT file formate
		Power Fail Safeguard
Backboard	NCS-MPLC-901	Size: 253mm×167.5mm
		5 groups digital pin for DI/DO
		5 groups analog pin for AI/AO

General Features		
Environment	Temperature	-40-70℃
	Humidity	≤85％RH
	Protecting rank	Accord with IP30 in GB4208
	Vibration	Accord with GB/T 2423.10
EMC		Accord with GB/T 17626
Insulating voltage	Channel to system	2500Vrms (work voltage: 60Vrms-250Vrms)
		700Vrms (work voltage: ≤60Vrms)
	Channel to channel	1500Vrms (work voltage: 60Vrms-250Vrms)
		700Vrms (work voltage:≤60Vrms)
Insulating resistance		≥10M