



Dezaw Focus on the Development of  
CNC System, Servo Motor, Servo Driver,  
Stepper Motor, Stepper, VFD, Spindle,  
HMI, PLC and Controller.



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**AUTOMATION  
EQUIPMENT**

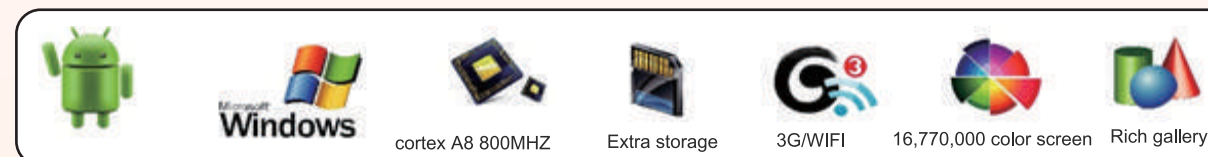
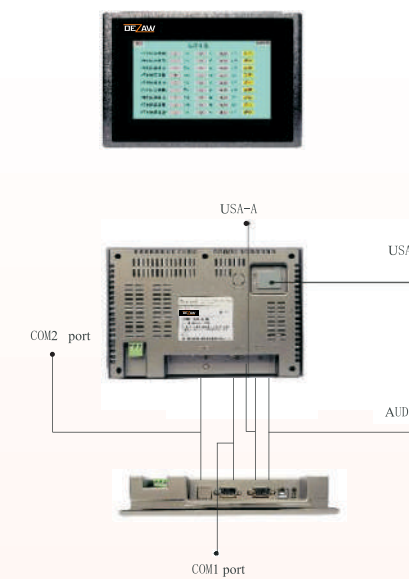
## DH-1 HMI Software Summary



### Software Summary

Based on Android 4.0.3; more user-friendly; richer in content; bringing better user experience; having more functions; more stable; supporting Android gesture dragging and zooming and special effects (transparent, left-right, top-bottom, diagonal, fade-in fade-out, etc.); efficient security mechanism to protect your development efforts.

- **Communication**  
A new optimal mechanism of communication makes field control more real-time and more reliable and supports single-serial port & multi-protocol communication, adapting to varieties of control devices.
- **Formula**  
The formula database supports import and export of EXCELS from U disk, network transmission of formula files, and many other means to modify formulas and also supports PLC transmission of formula data.
- **Formula security**  
A communication verification mechanism guarantees reliability in reading/writing formula data.
- **Frame configuration**  
Easier to operate and richer in function
- **Alarm**  
A new mechanism of setting makes alarm setting more intuitive and easier.
- **Software interface**  
Function integration makes the configuration development interface more intuitive and more concise.
- **Historical data**  
A standard database satisfies the needs of large data storage applications.
- **JavaScript**  
C-like scripting language supports the user defined library and function calls.
- **Printer**  
Support USB printing in the standard PCL language format, like most of the HP printers.
- **Input method**  
The subordinate supports Chinese input, convenient for domestic customers to develop.



## HMI Product Specifications

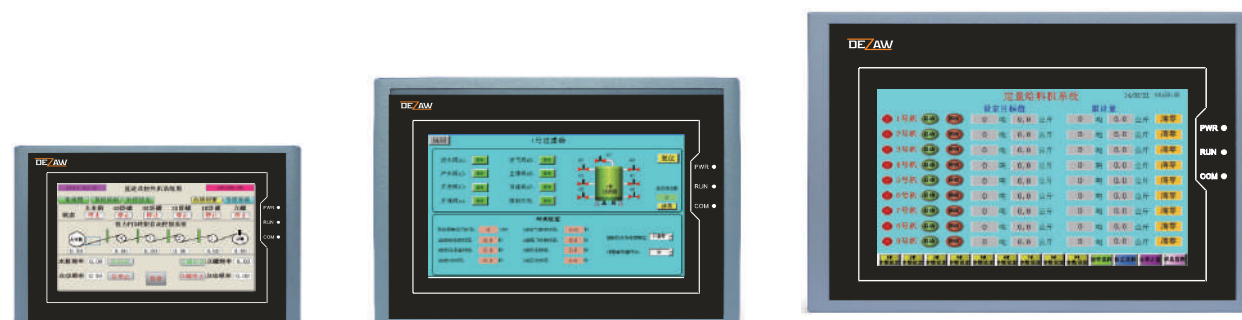
### DH-1

Product Model	DH-1043E;DH-1043C; DH-1043D;DH-1043W	DH-1050E;DH-1050S;DH-1050C; DH-1050D;DH-1050W	DH-1070E;DH-1070S;DH-1070C; DH-1070D; DH-1070W;DH-1070G;DH-1070WG;
<b>Display</b>	Display panel 4.3"(L*W=16:9) Resolution (pixels) 480x272 pixels Touch panel 4-line high precision touchpad Display color 16770000 Backlight unit LED Contrast 16.66736111 Luminosity (cd/m )2 400cd/m2 SD card N Memory 256M FLASH/512M DDR3 CPU Cortex A8 800MHz FCC compatibility Conform to FCC, Class A Dielectric strength test 1000V AC, 1 min. Anti-static grade Grade 4 CE certification Conform to standards EN55022 and EN55024	5"(L*W=16:9) 480x272 pixels 4-line high precision touchpad 16770000 LED 20.83402778 400cd/m2 N 256M FLASH/512M DDR3 Cortex A8 800MHz Conform to FCC, Class A 1000V AC, 1 min. Grade 4 Conform to standards EN55022 and EN55024	7"(L*W=16:9) 800x480 pixels 4-line high precision touchpad 16770000 LED 20.83402778 450cd/m2 Y 256M FLASH/512M DDR3 Cortex A8 800MHz Conform to FCC, Class A 1000V AC, 1 min. Grade 4 ±8000V Conform to standards EN55022 and EN55024
<b>Power</b>	Front class (front panel) IP65 Housing material Engineering plastics ABS+PC Program software DH1-DPSoft Power supply/consumption DC24V(+/-15%)/6W Serial port COM:RS232/422/485	IP65 Engineering plastics ABS+PC DH1-DPSoft DC24V(+/-15%)/7W COM:RS232/422/485	IP65 Engineering plastics ABS+PC DH1-DPSoft DC24V(+/-15%)/7W COM1:RS232/422/485; COM2:RS232/422/485
<b>Port</b>	USB download port Y Y Y Y USB port Y Y Y Y Ethernet port N N Y N CAN N Y Y N	Y Y Y Y Y Y Y Y N Y N Y N N Y Y	Y Y Y Y Y Y Y Y N Y N Y N N Y Y
<b>Unit</b>	Wifi N N N Y 3G N N N N	N N N N N N N N	N N N N N N N N
<b>Ambient conditions</b>	Ambient humidity -10 ~ 65°C/10 ~ 90%RH Seismic resistance 10-25Hz(In directions XYZ: 2G / 30 min.) Dimensions (W*H*D) 150*93*39(mm) Hole size (W*H) 141*84(mm) Net weight 0.2kg	-10 ~ 65°C/10 ~ 90%RH 10-25Hz(In directions XYZ: 2G / 30 min.) 165 *103*39(mm) 157*95(mm) 0.8kg	-10 ~ 65°C/10 ~ 90%RH 10-25Hz(In directions XYZ: 2G / 30 min.) 227*153*40(mm) 210*144(mm) 1.5kg
<b>Structure</b>			

### DH-1

Product Model	DH-1102E;DH-1102S;DH-1102C;DH-1102D; DH-1102W;DH-1102G;DH-1102WG;	DH-1121E;DH-1121S;DH-1121C;DH-1121D; DH-1121W;DH-1121G;DH-1121WG;
<b>Display</b>	Display panel 10.2"(L*W=16:9) Resolution (pixels) 800x480 pixels Touch panel 4-line high precision touchpad Display color 16770000 Backlight unit LED Contrast 18.75069444 Luminosity (cd/m )2 500cd/m2 SD card Y Memory 256M FLASH/512M DDR3 CPU Cortex A8 720MHz FCC compatibility Conform to FCC, Class A Dielectric strength test 1000V AC, 1 min. Anti-static grade Grade 4 ±8000V CE certification Conform to standards EN55022 and EN55024	12.1"(L*W=4:3) 800x600 pixels 4-line high precision touchpad 16770000 LED 18.75069444 500cd/m2 Y 256M FLASH/512M DDR3 Cortex A8 720MHz Conform to FCC, Class A 1000V AC, 1 min. Grade 4 ±8000V Conform to standards EN55022 and EN55024
<b>Power</b>	Protection grade (front panel) IP65 Housing material Engineering plastics ABS+PC Configuration software DH1-DPSoft Power supply/consumption DC24V(+/-15%)/7W Serial port COM1:RS232/422/485; COM2:RS232/422/485	IP50 Engineering plastics ABS+PC DH1-DPSoft DC24V(+/-15%)/12W COM1:RS232/422/485; COM2:RS232/422/485
<b>Port</b>	USB download port Y Y Y Y USB port Y Y Y Y Ethernet port N Y N Y CAN N N Y Y	Y Y Y Y Y Y Y Y N Y N Y N N Y Y
<b>Module</b>	Wifi N N N N 3G N N N N	N N N N N N N N
<b>Ambient conditions</b>	Ambient humidity -10 ~ 65°C/10 ~ 90%RH Seismic resistance 10-25Hz(In directions XYZ: 2G / 30 min.) Dimensions (W*H*D) 275*210*44(mm) Hole size (W*H) 259*201(mm) Net weight 2kg	-10 ~ 65°C/10 ~ 90%RH 10-25Hz(In directions XYZ: 2G / 30 min.) 338*253*65(mm) 330*246(mm) 2.26kg
<b>Structure</b>		

## DH-2 HMI Software Summary



- **Communication mode**  
The built-in COM integrates the RS232/422/485 communication mode. It has 2 COM ports for quick serial communication.
- **Software downloading**  
The product provides download ports at USB master and USB slave. The USB slave port supports transmission at 10M/S. The PnP USB master port supports a U disk, a printer, a mouse, or any other USB device.
- **Network card**  
A 10M/100M adaptive network card supports a network formed by HMI and another device that makes data exchange fast, realizing Ethernet communication in industry.
- **Data storage**  
High-capacity FLASH supports large data storage and U disk storage. Data will not get lost even in sudden outage.
- **Security**  
A new password mechanism is safer and more reliable.
- **Gallery**  
Provide a big gallery containing numerous vector diagrams used in various industries; support user definition (drawing) of vector diagrams; support image formats such as BMP and JPG; provide a commonly-used standard outline border of vector diagram.
- **Text font**  
Support 5 switchable languages, TRUE TYPE (TTF), complex font editing function, and Unicode encoding. Execute the international standard.
- **Printer; serial network**  
Support USB printers for image/data printing; achieve maximum connections (32 PLCs or smart devices) through RS485 communication, editing function, and Unicode encoding. Execute the international standard.
- **Pass-through communication**  
Through HMI, PC communicates directly with PLC or the connecting device; 2 HMIs communicate with the same PLC simultaneously.
- **New set-up function**  
A slide analog switch supports slide entry of values; DropDownList is a list of multiple items to display; multiple retnd chart display components.
- **Online simulation**  
Connect the computer directly to PLC to obtain data and simulate configuration works.
- **Ethernet communication**  
The Ethernet network brings about communication between different HMIs or between an HMI and a control device.

## DH-2 HMI Product Specification

### DH-2

Product Model		DH-2050S; DH-2050E		DH-2070S; DH-2070E; DH-2070SM; DH-2070EM				DH-2102S; DH-2102E	
Display	Display panel	5"(L:W=16:9)		7"(L:W=16:9)				10.2"(L:W=16:9)	
	Resolution (pixels)	480x272 pixels		800x480 pixels				800x480 pixels	
	Touch panel	4-line high precision touchpad		4-line high precision touchpad				4-line high precision touchpad	
	Display color	260000		260000				260,000	
	Backlight unit	LED		LED				LED	
	Contrast	400: 1	450: 1	400: 1				450: 1	
	Luminosity (cd/m <sup>2</sup> )	400cd/m <sup>2</sup>		450cd/m <sup>2</sup>				500cd/m <sup>2</sup>	
Product feature/certification	SD card	N		Y	N	Y	N	Y	
	Memory	128M FLASH+64M DDR		128M/FLASH+64M DDR				128M/FLASH+64M DDR	
	CPU	32-bit 400MHz RISC		32-bit 400MHz RISC				32-bit 400MHz RISC	
	FCC compatibility	Conform to FCC, Class A		Conform to FCC, Class A				Conform to FCC, Class A	
	Dielectric strength test	1000V AC, 1 min.		1000V AC, 1 min.				1000V AC, 1 min.	
	CE certification	Conform to standards EN55022 and IP65		Conform to standards EN55022 and EN55024 IP65				Conform to standards EN55022 IP65	
	Front class (front panel)	IP65		IP65				IP65	
	Housing material	Engineering plastics ABS+PC		Engineering plastics ABS+PC				Engineering plastics ABS+PC	
Power	Configuration software	DH2-DPSoft		DH2-DPSoft				DH2-DPSoft	
	Power	DC24V(+/-15%)/3W		DC24V(+/-15%)/6W				DC24V(+/-15%)/8W	
Interface	Serial port	COM:RS232/422/485		COM1:RS232/422/485; COM2:RS232/422/485				COM1:RS232/422/485;	
	USB download port	Y	Y	Y	Y	Y	Y	Y	
	USB port	Y	Y	Y	Y	Y	Y	Y	
	Ethernet port	Y	N	Y	N	Y	Y	Y	
Working environment	Ambient humidity	-10 ~ 65°C/10 ~ 90%RH		-10 ~ 65°C/10 ~ 90%RH				-10 ~ 65°C/10 ~ 90%RH	
	Seismic resistance	10-25Hz(In directions XYZ: 2G / 30 min.)		10-25Hz(In directions XYZ: 2G / 30 min.)				10-25Hz(In directions XYZ: 2G / 30 min.)	
Structure	Dimensions (W*H*D)	165*103*39(mm)		227*153*40(mm)				275*210*44(mm)	
	Hole size (W*H)	157* 95(mm)		210*144(mm)				259*201(mm)	
	Net weight	0.8kg		1.5kg				2kg	

#### Optional HMI accessories

USB cables connect PC and HMI for uploading/downloading project files.

Communication cables connect PLC and HMI for data transmission. These two kinds of cables are available for different PLC models.



USB Cab

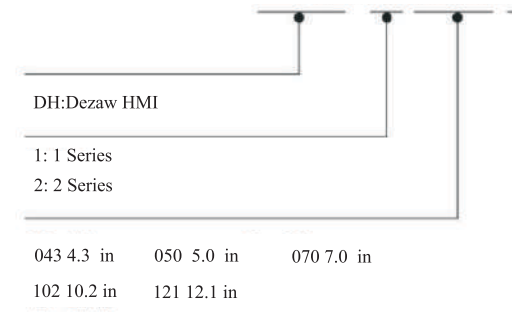
Communication Cable



Fastener

#### Description of DH human-machine model

DH-1 043 E



E:Relatively economical,without Ethernet

S: With Ethernet

C:CANBus

D:Ethernet and CANBus

W:WiFi

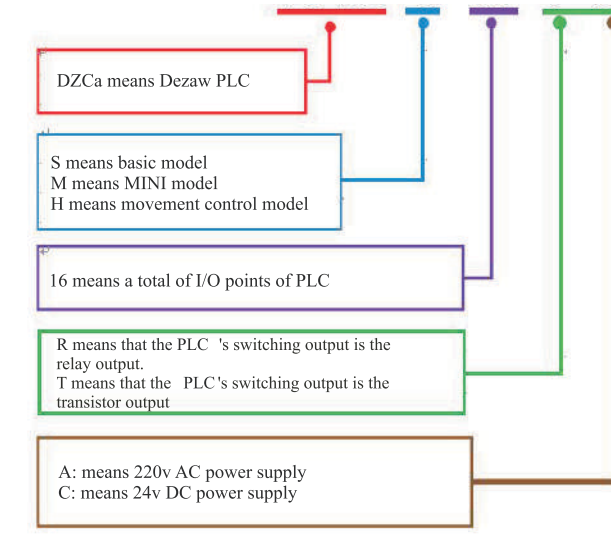
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## Product introduction >>



### DZCa series PLC model description

DZCa-S 16 T-A



### Product features



**32-bit high performance CPU**  
Compiled execution mode; scan cycle is 10 times faster than that of the analytic model



**Fast instruction execution**  
The execution time of single-step run instruction is up to 0.05uS



**High-performance high-speed pulse input/output**  
Support 2-way or 4-way high-speed pulse output, up to 200KHz  
Support two-way single-phase or one-way AB phase high-speed pulse counting, up to 200KHz



**Powerful expansion**  
Supports up to 8 expansion modules, with multiple expansion modules available



**Large storage capacity**  
With more than 20,000 lines of user program storage area, larger program capacity  
2KByte power-off storage area, for safer data storage



**Multi-layer encryption protection**  
Including the upload password, download password, monitoring password, sub-program password and other protection, protect the legitimate rights and interests of users.



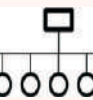
**Convenient program download monitoring**  
With USB interface, support USB download program and monitor program running status



**Easy to install software and easy to program**  
Easy to install the programming software with rich and convenient programming interface tools



**RS485 RS232** Communication interfaces  
Two communication ports, with one RS232 and one RS485



**Easy to network**  
ModbusRTU master-slave mode supporting RS485 can realize networking, and can connect up to 127 communication devices.

- Electrostatic grade: 4, ±8000V
- With an external real-time clock chip, the clock time is more accurate.
- Support analogue simulation operation and online monitoring mode.
- The programming software is simple and easy to understand, supporting more than 160 commands.
- With European and Japanese programming styles, support ladder diagram programming and command input programming.
- With clear program structure, there are main program, subprogram, and interrupt program, and the program is divided into multiple grids.
- The application command in the ladder diagram is in the form of a command block, which appears in the tree menu for selection by user.
- Support for initializing register values and status.
- Support C language programming; with built-in rich library functions, easy to program, more efficient; support Modbus master-slave mode and free port communication for more flexible use.
- Support external interrupt and timer interrupt functions, independent of the main program scan cycle Make the given signal response more timely.
- Support the component use table view function, and the allocation management of the registers is more convenient.
- Support user variable table, with centralized customization of variables, for more efficient programming.

# <<Specifications

## I. Basic PLC host

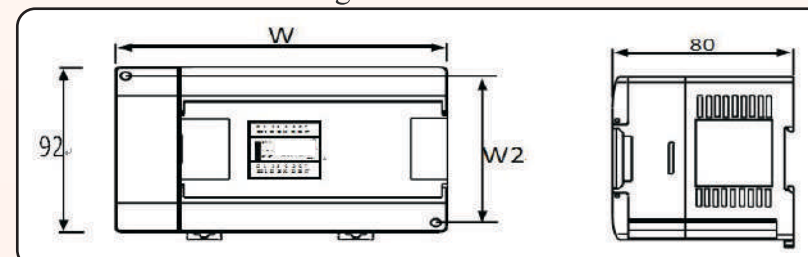
Model	DZCa-S16T-A	DZCa-S32T-A	DZCa-S64T-A	DZCa-S16R-A	DZCa-S32R-A	DZCa-S64R-A
Power supply						
Power (W)	2.6	3	3.6	3.2	5.2	6.8
Power supply	AC100V ~ 240V					
<b>Input parameters</b>						
Digital input	8	16	32	8	16	32
SINK/SRCE wiring	Transformed by internal common point terminal S/S and external common line wiring					
Input signal voltage	DC24V±20%					
High-speed counting	2 ways, up to 200KHz respectively		4 ways, up to 200KHz respectively		2 ways, up to 200KHz respectively	
AB phase counting	One way, up to 200KHz respectively		2 ways, up to 200KHz respectively		One way, up to 200KHz respectively	
<b>Output parameters</b>						
Digital output	8	16	32	8	16	32
Output type	Transistor		Relay		Relay	
Output voltage	6 ~ 30VDC		<250VAC, 30VDC		80VA	
Max. inductive load	12W		80VA		80VA	
Max. resistance load	0.5A/high speed, up to 200KHz (Y0/Y1) respectively; 0.2A/low speed 10KHz (Y2 ~ Y7), not exceed 3A at common point		0.5A/high speed, up to 200KHz (Y0 ~ Y3) respectively; 0.2A/low speed 10KHz (Y4 ~ Y7), not exceed 3A at common point		Single end: 2A, common point: 4A	
Pulse output	2 ways, up to 200KHz respectively		4 ways, up to 200KHz respectively		/	
<b>Interface</b>						
RS232	1 (MINI232 interface supports upload and download, monitoring, serial communication, with baud rate 1200Bps ~ 115200Bps)					
RS485	1 (supports serial communication, with baud rate 4800Bps ~ 115200Bps)					
RJ45	No					
USB DEVICE INTERFACE	Support upload and download, online monitoring					
<b>Other parameters</b>						
FCC compatibility	Comply with FCC, Class A					
Voltage withstand test	1000V AC, 1 minute					
CE certification	In line with EN55032 and EN55035 standards					
Protection level	IP30					
<b>Structure and environment</b>						
Dimensions (W*H*D)	109.5*92*80(mm)	147.6*92*80(mm)	216*92*80(mm)	109.5*92*80(mm)	147.6*92*80(mm)	216*92*80(mm)
Weight (g)	454	563	769	465	590	831
Ambient temperature	0°C ~ 55°C (No freeze)					
Working environment humidity	5 ~ 95%RH (No condensation)					
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)					

## II. Basic PLC expansion module

Model	DZCa-SE16DXR-C	DZCa-SE16DXT-C	DZCa-SE16DI-C	DZCa-SE16DR-C	DZCa-SE16DT-C	DZCa-SE6AX-C	DZCa-SE4PT-C
<b>Input parameters</b>							
Digital input	8	8	16	/	/	/	/
Analog input	/	/	/	/	/	4 (16-bit)	/
Thermocouple input	/	/	/	/	/	/	4 (16-bit)
<b>Output parameters</b>							
Digital output	8	8	/	16	16	/	/
Output type	Relay	Transistor	/	Relay	Transistor	/	/
Analog output	/	/	/	/	/	2 (16-bit)	/

Notes: 1. Analog input, output voltage or current can be optional;  
2. Thermocouple input PT100 and K-thermocouple can be optional.

## III. Dimensional drawing



Notes:  
1. Please refer to the parameter specification table for detailed dimensions.  
2. Install a 35mm wide DIN rail or directly install it (with bolts) (M4)

## Product introduction>>



### Product features



**32-bit high performance CPU**  
Compiled execution mode; scan cycle is 10 times faster than that of the analytic model



**Fast instruction execution**  
The execution time of single-step run instruction is up to 0.05uS



**High-performance high-speed pulse input/output**  
Support 2-way or 4-way high-speed pulse output, up to 200KHz  
Two-way or four-way single-phase high-speed pulse counting, up to 200KHz respectively. One or two AB phase high-speed pulse counting, up to 200KHz



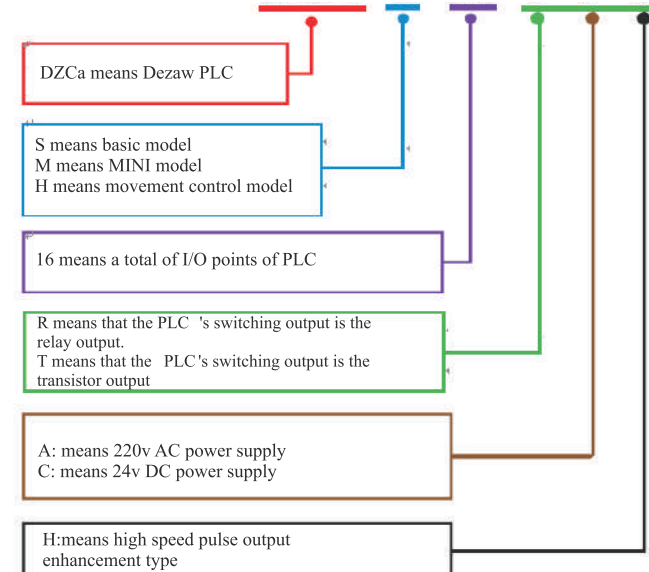
**Small installation size**  
Smaller size and convenient installation, saving the limited installation space for users



**Large storage capacity**  
With more than 20,000 lines of user program storage area, larger program capacity  
2KByte power-off storage area, for safer data storage

### DZCa series PLC model description

#### DZCa-M 16 T-C-H



**Multi-layer encryption protection**  
Including the upload password, download password, monitoring password, sub-program password and other protection, protect the legitimate rights and interests of users.



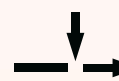
**Easy to download and debug**  
Support USB power supply download program and debugging, highly reliable USB upload, download and monitoring.



**Easy to install software and easy to program**  
Easy to install the programming software with rich and convenient programming interface tools



**External clock chip**  
An external real-time clock chip is used to make the clock more accurate.



**Interrupt function**  
Support the interrupt functions, including external interrupts and timer interrupts, not affected by the main program scan cycle to make the given signal response more timely.

- Electrostatic grade: 3, ±6000V
- Support up to 3 expansion modules and one expansion point accessory; support USB power supply programming, and support analogue simulation run.
- The programming software is simple and easy to understand, supporting more than 160 commands.
- With European and Japanese programming styles, support ladder diagram programming and command input programming.
- With clear program structure, there are main program, subprogram, and interrupt program, and the program is divided into multiple grids.
- The application command in the ladder diagram is in the form of a command block, which appears in the tree menu for selection by user.
- Support for initializing register values and status.
- Support the component use table view function, and the allocation management of the registers is more convenient.
- Support user variable table, with centralized customization of variables, for more efficient programming.
- One RS232.
- Support RS232 and USB for communication, monitoring, upload and download with PC.

# <<Specifications

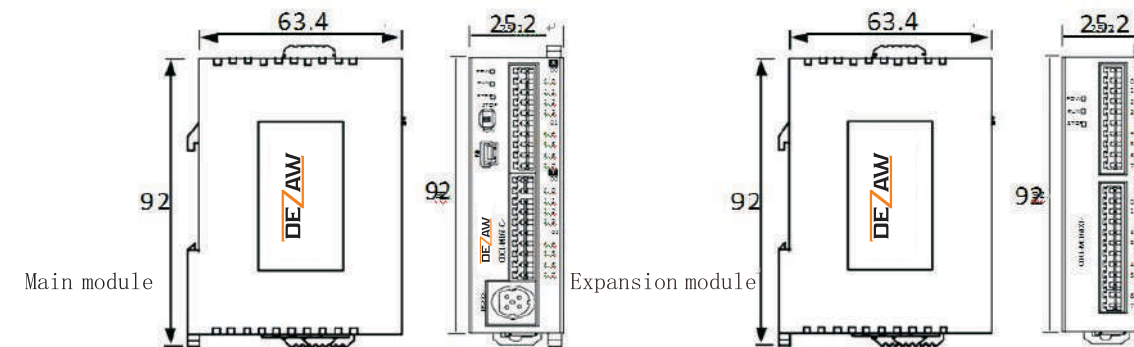
## I.MINI type PLC host

Model	DZCa-M16T-C	DZCa-M16T-C-H	DZCa-M14R-C
<b>Power supply</b>			
Power (W)		1.5	
Power supply		DC24V±15%	
<b>Input parameters</b>			
Digital input	8	8	8
SINK/SRCE wiring	Transformed by internal common point terminal S/S and external common line wiring		
Input signal voltage	DC24V±20%		
High-speed counting	2 ways, up to 200KHz respectively	4 ways, up to 200KHz respectively	/
AB phase counting	One way, up to 200KHz respectively	2 ways, up to 200KHz respectively	/
<b>Output parameters</b>			
Digital output	8	8	6
Output type	Transistor	Transistor	Relay
Output voltage	6 ~ 30VDC	6 ~ 30VDC	<250VAC, 30VDC
Max. inductive load	12W	12W	80VA
Max. resistance load	Max. 0.3A for single point	Max. 0.3A for single point	Single end: 2A; single end: 4A
Pulse output	2 ways, up to 200KHz respectively	4 ways, up to 200KHz respectively	/
<b>Interface</b>			
RS232	1 (MINI232 interface supports upload and download, monitoring, serial communication, with baud rate 1200Bps ~ 115200Bps)		
RS485		No	
RJ45		No	
USB DEVICE INTERFACE		Support upload and download, online monitoring	
<b>Other parameters</b>			
FCC compatibility		Comply with FCC, Class A	
Voltage withstand test		1000V AC, 1 minute	
CE certification		In line with EN55032 and EN55035 standards	
Protection level		IP30	
<b>Structure and environment</b>			
Dimensions (W*H*D)		25.2*92*63.4(mm)	
Weight (g)		102	
Ambient temperature		0°C ~ 55°C (No freeze)	
Working environment humidity		5 ~ 95%RH (No condensation)	
Shock resistance		10 ~ 25HZ (XYZ direction 2G/30 minutes)	

## II.MINI type PLC expansion module

Model	DZCa-ME16DXT	DZCa-ME16DXR	DZCa-ME16DI	DZCa-ME16DT	DZCa-ME12DR
<b>Input parameters</b>					
Digital input	8	8	16	/	/
Analog input	/	/	/	/	/
Thermocouple input	/	/	/	/	/
<b>Output parameters</b>					
Digital output	8	8	/	16	12
Output type	Transistor	Relay	/	Transistor	Relay
Analog output	/	/	/	/	/

## III.Dimension drawing



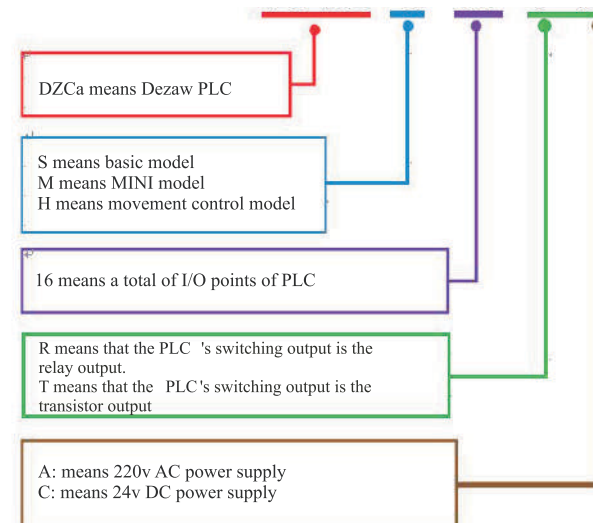
Note: Install a 35mm wide DIN rail

## Product introduction>>



### DZCa series PLC model description

#### DZCa-H 16 T-A



### Product features



**32-bit high performance CPU**  
Compiled execution mode; scan cycle is 10 times faster than that of the analytic model



**Fast instruction execution**  
The execution time of single-step run instruction is up to 0.05uS



**High-performance high-speed pulse input/output**  
Support 10-way high-speed pulse output, up to 500KHz respectively  
Support 12-way single-phase or 6-way AB phase high-speed pulse counting, up to 200KHz



**External clock chip**  
An external real-time clock chip is used to make the clock more accurate.



**Large storage capacity**  
With more than 20,000 lines of user program storage area, larger program capacity  
2KByte power-off storage area, for safer data storage



**Multi-layer encryption protection**  
Including the upload password, download password, monitoring password, sub-program password and other protection, protect the legitimate rights and interests of users.



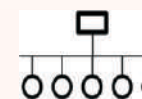
**Convenient program download monitoring**  
With USB interface, support USB download program and monitor program running status



**Easy to install software and easy to program**  
Easy to install the programming software with rich and convenient programming interface tools



**RS485  
RS232** Communication interfaces  
Two communication ports, with one RS232 and one RS485



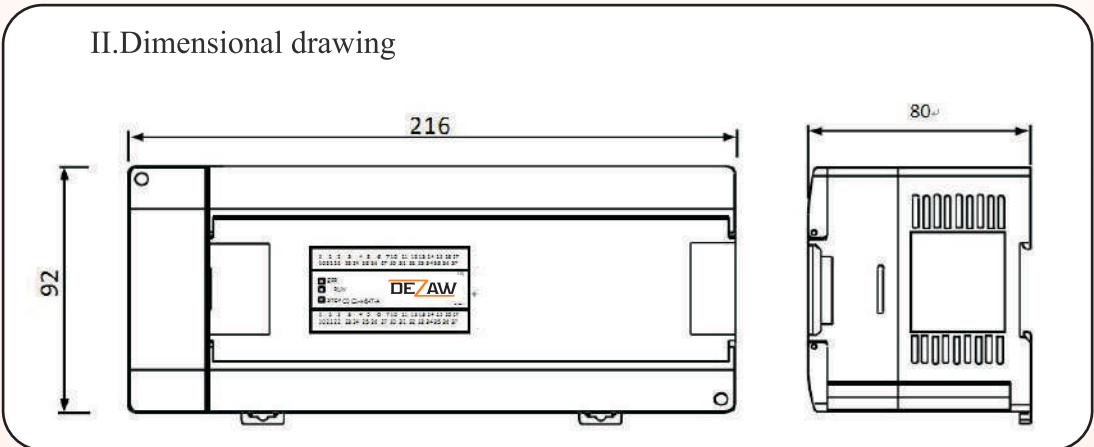
**Easy to network**  
ModbusRTU master-slave mode supporting RS485 can realize networking, and can connect up to 127 communication devices.

- Support RS232, RS485, and USB for communication, monitoring, upload and download with PC.
- Electrostatic grade: 4, ±8000V
- With an external real-time clock chip, the clock time is more accurate.
- Support analogue simulation operation and online monitoring mode.
- Support input signal filtering time setting
- The programming software is simple and easy to understand, supporting more than 160 commands.
- With European and Japanese programming styles, support ladder diagram programming and command input programming.
- With clear program structure, there are main program, subprogram, and interrupt program, and the program is divided into multiple grids.
- The application command in the ladder diagram is in the form of a command block, which appears in the tree menu for selection by user.
- Support for initializing register values and status.
- Support C language programming: with built-in rich library functions, easy to program, more efficient; support Modbus master-slave mode and free port communication for more flexible use.
- Support external interrupt and timer interrupt functions, independent of the main program scan cycle Make the given signal response more timely.
- Support component use table view function, making the allocation management of the register more convenient

# <<Specifications

## I.Movement control type PLC

<b>Model</b>	<b>DZCa-H64T-A</b>
<b>Power supply</b>	
Power (W)	3.6
Power supply	AC100V ~ 240V
<b>Input parameters</b>	
Digital input	32
SINK/SRCE wiring	Transformed by internal common point terminal S/S and external common line wiring
Input signal voltage	DC24V±20%
High-speed counting	12 ways, up to 200KHz respectively
AB phase counting	6 ways, up to 200KHz
<b>Output parameters</b>	
Digital output	32
Output type	Transistor
Output voltage	6 ~ 30VDC
Max. inductive load	12W
Max. resistance load	0.5A/high speed, up to 500KHz (Y0 ~ Y11) respectively; 0.2A/low speed 10KHz (Y12 ~ Y37), not exceed 3A at common point
Pulse output	10 ways, up to 500KHz respectively
<b>Interface</b>	
RS232	1 (MINI232 interface supports upload and download, monitoring, serial communication, with baud rate 1 (supports serial communication, with baud rate 4800Bps ~ 115200Bps)
RS485	
RJ45	No
USB DEVICE INTERFACE	Support upload and download, online monitoring
<b>Other parameters</b>	
FCC compatibility	Comply with FCC, Class A
Voltage withstand test	1000V AC, 1 minute
CE certification	In line with EN55032 and EN55035 standards
Protection level	IP30
<b>Structure and environment</b>	
Dimensions (W*H*D)	216*92*80(mm)
Weight (g)	769
Ambient temperature	0°C ~ 55°C (No freeze)
Working environment humidity	5 ~ 95%RH (No condensation)
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)



Note: Install a 35mm wide DIN rail or directly install it(with bolts)(M4)

