



PRODUCTS CATALOG

**Programmable Logic Controller
Human Machine Interface
Industrial Internet of Things**



Addr: 10th Building, E field, Software Park, Fuzhou, Fujian, China

Tel: +86-591-87868869 ext894 Fax: +86-591-87843899

Website: www.we-con.com.cn/en

Email: sales@we-con.com.cn skype: lily-wecon

Edition No.: WCT2.1.0



2018 Edition

Wecon Technology Co., Ltd. All Rights Reserved.



PI9000 SERIES

Cortex A9 1.4GHz

Super Size High Resolution

Aluminum Body

All Metal Design, with Nobility



TFT

High-definition

High Resolution

16000k colors

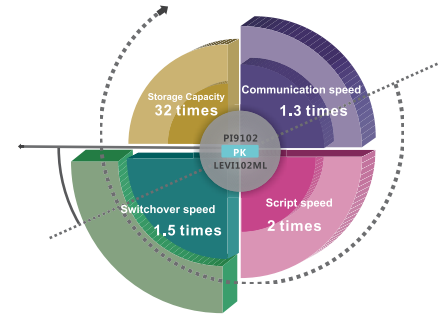
Full view LCD screen

1920 x 1080 pixels



PI8000 SERIES

High-end Configuration



CORTEX A8 CPU

- Flash 4GB EMMC
- Up to 32G SD card, 64G USB supported
- RS232/RS485/RS422 supported
- Isolated RS485 port with high security and reliability
- Ethernet, CAN bus, USB2.0 (USB Host; USB Client) port supported

HTML5 as the background language, breaks through the traditional restrictions.



Exquisite Picture

Thousands of graphics libraries, 3D effect in displaying instruments and machine parts.



Multilingual Support

Up to 8 languages on display for your screen design.



Multi-communication Port

Up to 5 serial ports, Ethernet port, CAN protocol, over 200 protocols supported.

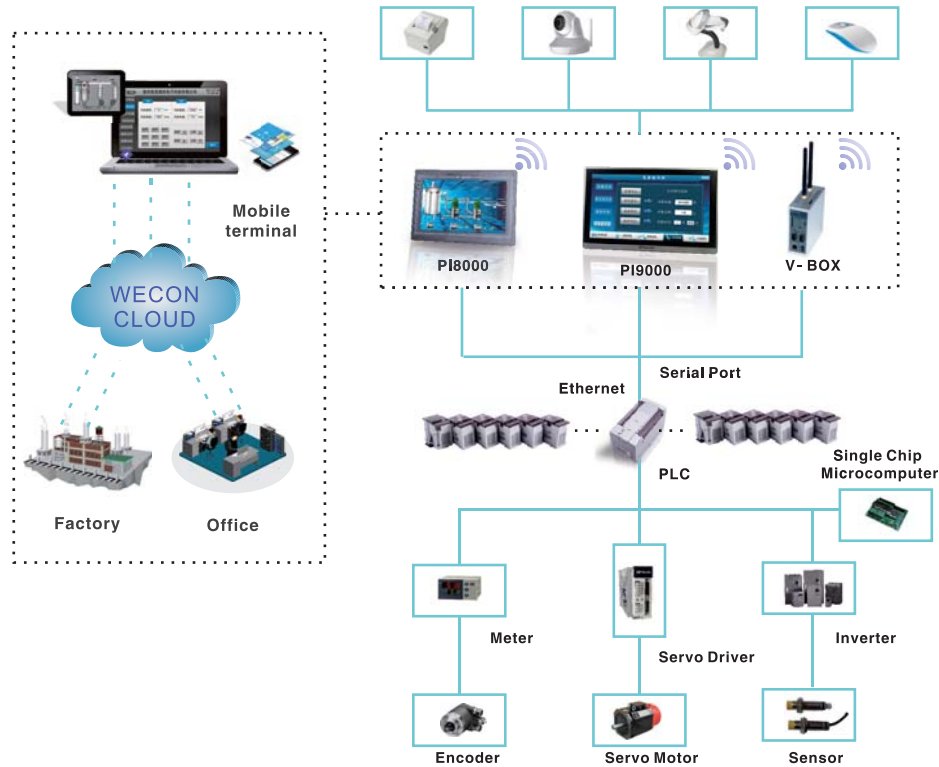


Extensive Peripheral Devices

Mini-printer, Barcode scanner, WIFI, USB etc.

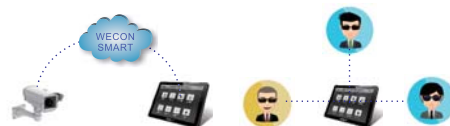
INTELLIGENT

Cloud Platform >>



Cloud Monitoring

Wecon Smart App for Android/iPhone devices supports multiple users operating simultaneously on PI 8000/9000 Series.



SECURITY

Cloud Message



In case of emergency, notification could be sent to your mobile and you can deal with it immediately.

Debugging over cloud



Through connection over cloud, PLC and HMI could be connected to PC for online debugging and programming.

Security System >>



Access Authorization

Access authorization can be set to each button to protect against unauthorized operation or misoperation. Roles are to be assigned to users to facilitate management.



Operation Record

- To record each step of operations from authorized users.
- Timestamp, buttons pressed and depressed, everything would be logged.
- Log files are stored in database format for data analysis to improve management.



Security Management

- programmer password can be protected your project from unauthorized access or reverse engineering.
- Project password is to protect your project files against uploading and running on unauthorized HMIs.



Password Security

Project password, access password, administration password and remote password are working together to insure secure access.



Smart Home



Smart Breeding



Vehicle



Smart Factory



Security

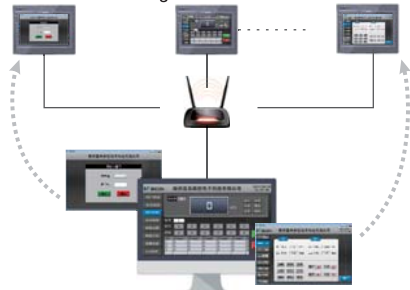
PI3000 SERIES

LAN monitor

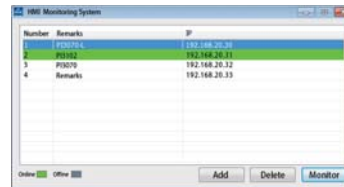


A Convenience

- Monitoring software on PC can scan through LAN to find available HMI devices to add in its list for monitoring.



- Monitoring software on PC can scan through LAN to find available HMI devices to add in its list for monitoring.



- Real-time synchronization between PC and HMI, ensure the accuracy of data.

B Security

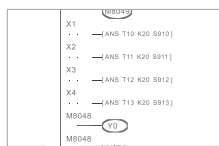
All traffic is limited in LAN, no access from Internet. Simple and effective programming software, stable performance.

C Data collection and storage

Up to 32G USB disk and SD card supported, SQL supported for data querying and analyzing.

PLC Program upgrade by USB stick

Remarks: this function is only for Wecon PLC



USB Disk Download PLC Program
(All PI Series supported)

A Convenience

Convenience in program upgrade without PC and extra data cable.

B Usability

One USB stick can be used to upgrade multiple HMI panels.

C Security

New program can be encrypted for safety. PLC program would be also encrypted during downloading.

PI3000 SPECIFICATIONS

Basic HMI



Model	PI3070	PI3102	PI3102H	PI3102HE	
OS	Linux QT				
CPU	Cortex A8 600MHz		Cortex A8 500MHz		
Touch Screen	High precision four-wire resistive				
Display	Screen Size	7Inch	10.2 Inch	10.2 Inch	
	Resolution	800*480		1024*600	
	Brightness	300 cd/m ²			
	Contract	500:1		600:1	
	Backlight	LED			
	Backlight Life	50,000 Hours			
Storage	Colors	16,000k colors	260k colors	16,000k colors	
	Flash	128MB			
	RAM	DDRIII128MB			
	SD Card	Compatible		--	
Ports	USB port	USB Host : USB 2.0 x 1 ; USB Client: USB 2.0 x 1			
	Port Number	2 physical serial ports		1 physical serial port	
	Serial Port	COM1	RS232/RS422/RS485		RS422/RS485
		COM2	RS232/RS485		RS232
		COM3	--		
	Ethernet	YES			
	CAN	N/A			
HDMI	N/A				
Permanent Calendar	Built-in				
Power	Power Supply	24VDC(12 - 28V DC)			
	Power	<10W			
	Power Isolation	N/A			
	Withstand Voltage	500V AC (<1 minute)			
	Insulation Resistance	>20MΩ 500VDC			
Seismic resistance	10 - 25 Hz (X, Y, Z direction 2G/30 minutes)				
Dimension	Shell	ABS			
	Dimension(mm)	201.0W*146.6H*36.5D	272.0W*190.5H*41.4D		
	Mounting size (mm)	192.0W*138.0H	260.0W*179.0H		
	Weight (KG)	0.6	1.2		
Environment	Protection	IP65 (Front panel)			
	Temperature	Storage: -30℃~70℃ ; Working: -10℃~60℃			
	Humidity	10 - 90%RH(Non-condensing)			
	Seismic resistance	10~25Hz (X,Y,Z direction 2G/3D minutes)			
CE Certification	CE Marked				
FCC Certification	FCC Class A				
Programming Software	PI Studio				
Remote Control	N/A				

PI8000 SPECIFICATIONS

Advanced
HMI



Model PI8070 PI8102 PI8102H PI8104

OS		Linux QT				
CPU		Cortex A8 600MHz				
Touch Screen		High precision four- wire resistive				
Display	Screen Size	7 Inch	10.2 Inch	10.2 Inch	10.4 Inch	
	Resolution	800*480	800*480	1024*600	800*600	
	Brightness	300cd/m ²	300cd/m ²	300cd/m ²	300cd/m ²	
	Contract	500:1	500:1	600:1	500:1	
	Backlight	LED				
	Backlight Life	50,000 hours				
Storage	Flash	4GB EMMC				
	RAM	DDRIII 512MB				
	SD card	Compatible				
I/O ports	USB Host	USB Host:USB2.0x1; USB Client:USB2.0x1				
	Serial Port	COM1	RS232, RS422/RS485			
		COM2	RS232,RS485			
		COM3	RS485			
	Ethernet	YES				
	CAN	YES				
	HDMIports	N/A				
	Permanent Calendar	Built-in				
	Power Supply	Power Inpupt	24V DC(12~28V DC)			
		Power consumption	<10W			
Power Isolation		Built-in				
Dimension	Enclosure	ABS				
	Dimension (mm)	201.0W*146.6H*36.5D	272.0W*190.5H*41.4D	299.0W*222.0H*54.0D		
	Mounting Size (mm)	192.0W*138.0H	260.0W*179.0H	288.0W*212.0H		
	Weight (KG)	0.6	1.2	1.9		
Operation Environment	Protection	IP65(Front panel)				
	Storage Environment	Storage : -30°C~70°C ; Working : -10°C~60°C				
	Working Environment	10~90%RH(Non-condensing)				
	Seismic resistance	10~25Hz (X,Y,Z direction 2G/3D minutes)				
	CE Certification	CE Marked				
FCC Certification	FCC Class A					
Software	PI Studio					
Remote Control	Optional					

PI9000 SPECIFICATIONS

High-end
HMI



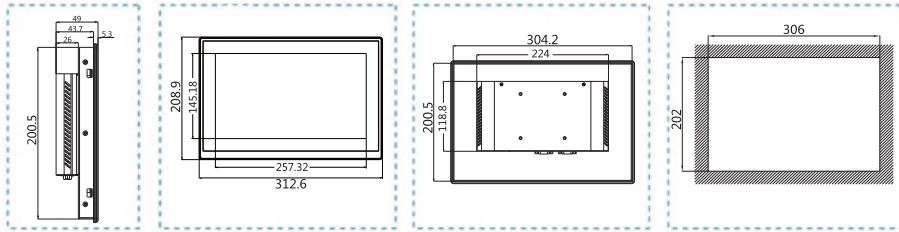
Model PI9120 PI9150

OS		Linux QT		
CPU		Cortex A9 1.4GHz		
Touch Screen		High precision four- wire resistive		
Display	Screen Size	12 Inch	15 Inch	
	Resolution	1920*1080	1920*1080	
	Brightness	300cd/m ²	220cd/m ²	
	Contract	500:1		
	Backlight	LED		
	Backlight Life	50,000 hours		
Storage	Flash	4GB EMMC		
	RAM	DDRIII 512MB		
	SD Card	Compatible		
I/O ports	USB Host	USB Host:USB2.0x1 ; USB Client:USB2.0x1		
	Serial Port	COM1	RS232, RS422/RS485	
		COM2	RS232,RS485	
		COM3	RS485	
	Ethernet	YES		
	CAN	N/A		
	Permanent Calendar	Built-in		
	Power Supply	Power Inpupt	24V DC(12~28V DC)	
		Power consumption	<20W	
		Power Isolation	N/A	
Dimension	Enclosure	Aluminium		
	Dimension (mm)	312.6W*208.9H*49.0D	401.0W*251.0H*49.2D	
	Mounting Size (mm)	306.0W*202.0H	394.0W*244.0H	
	Weight (KG)	2.2	3.1	
Operation Environment	Protection	IP65(Front panel)		
	Storage Environment	Storage : -30°C~70°C ; Working : 0°C~50°C		
	Working Environment	10 ~ 90% RH (Non-condensing)		
	Seismic resistance	10 ~ 25 Hz (X, Y, Z direction 2G/3D minutes)		
	CE Certification	CE Marked		
FCC Certification	FCC Class A			
Software	PI Studio			
Remote Control	Optional			

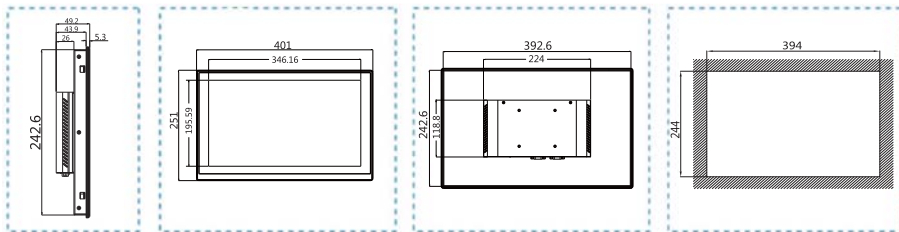
INSTALLATION DIMENSION

*Unit: mm

PI9120



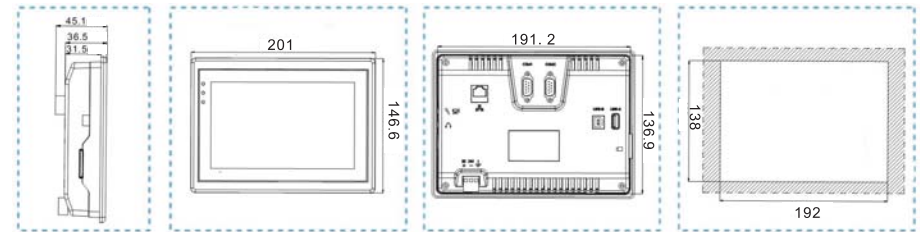
PI9150



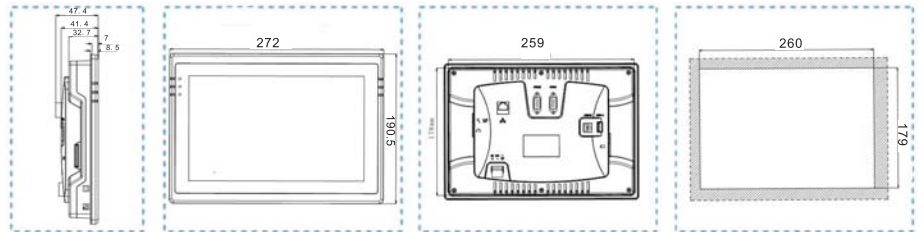
INSTALLATION DIMENSION

*Unit: mm

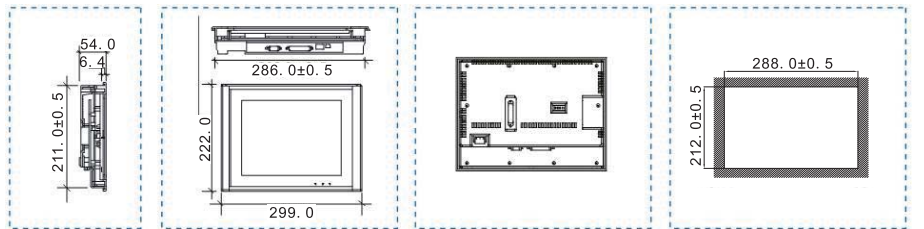
PI8070 / PI3070N



PI8102 / PI3102N



PI8104



WECON VNET IIoT SYSTEM

VNET IoT



Wecon Vnet System and V-BOX are designed to provide a safe and reliable Industrial-IoT System to users which ends independent operation of each device. We have used the latest State-of-art technologies of Clouds, IoT and Internet. The advanced concept and technology of Industry 4.0 facilitates small and medium scale industry to reduce information flow and management cost as well as increase productivity. It also helps to enhance after-sales Services.

VNET SYSTEM



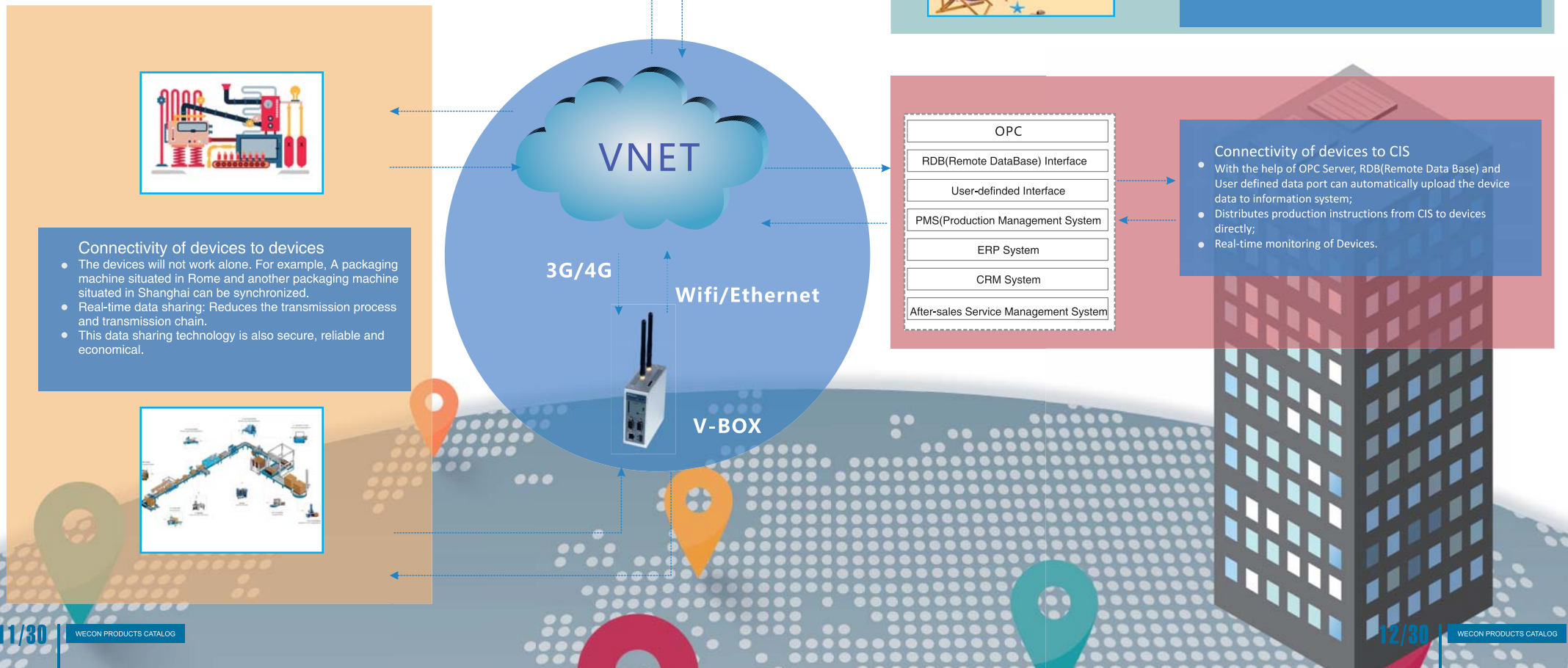
- **Connectivity of devices to Users;**
- **Connectivity of devices to devices;**
- **Connectivity of devices to CIS;**

WECON VNET IIoT SYSTEM

V-BOX Main Features



- To obtain data through serial communication (RS232/RS485/Ethernet) from device controllers.
- Supports most brands of PLCs and controllers.
- It connects to cloud platform through 3G/4G/Ethernet.
- It can send SMS and Emails.
- Supports MODBUS, BACNET, etc.
- It also supports User-defined protocol
- Configuration System is user-friendly, secure and reliable.



WECON VNET IIoT SYSTEM

VNET System Technology Architecture >>

*** remarks in developing

VNET System Operation

- Presents simplified SCADA screens by Smart V-BOX APP.
- Sending SMS or emails through cloud platform.
- Connects cloud data and OPC system through OPC client, for as to remote control of the database.

Management Features

- Different "Accounts" for the Device vender and the user of Data.
- "View account" can display data of multiple V-boxes. Device owner can configure V-BOX remotely and also can organize "Management Account" easily.

Supported devices/protocols

- Supports most brands of PLC Protocols.
- Supports MODBUS and BACNET.
- Supports User-defined Protocol.

Cloud SCADA*

- SCADA data save in cloud platform
- "Configuration utility" can configure simplified SCADA screens of all "View Accounts".



WECON VNET IIoT SYSTEM

V-net IIoT system >>

- Historical data and alarm data that stored in the cloud can be exported as needed.
- Real-time data, real-time curve.
- GIS-based real-time data vector map.
- Cloud configuration function to realize cross-box configuration.
- Android/ios App access, desktop browsing.
- OPC access, HTTP developer interface.
- Remote database transmission.
- PLC remote monitoring and remote program download.

V-BOX SPECIFICATION >>

OS		Linux	
CPU		Cortex A8 600MHz	
Storage	Flash	128MB	
	RAM	DDRIII 128MB	
	SD Card	YES	
I/O Ports	USB Host	USB2.0 x 1	
	USB Client	OTG USB/DEVICE USB	
	Serial Port	RS232/RS485/RS422	
		RS485/RS422	
		RS485	
	Ethernet		YES
	WIFI Module		YES
3G/4G Module		4G(Optional)	
Power	Power Supply	24VDC(12~28V DC)	
	Power consumption	<10W	
Dimension	Enclosure	Aluminum	
	Dimension(mm)	118.0W*105.0H*44.3D	
	Mounting Size(mm)	136.0W*22.0H	
	Net/Gross (KG)	0.34	
Operation Environment	Seismic Resistance	10 ~ 25 Hz (X、Y、Z direction 2G/30minutes)	
	Storage Temperature	-30℃ ~70℃	
	Working Temperature	-10℃ ~60℃	
	Relative Humidity	10 ~ 90%RH(Non-condensing)	

LEVI SERIES SPECIFICATIONS

Standard HMI



Model

LEVI2035T LEVI2043T LEVI2043E LEVI2043E-N

General	Screen Size	3.5 Inch	4.3 Inch	4.3 Inch	4.3 Inch
	Resolution	320*240	480*272	480*272	480*272
	Color	65536 color			
	Brightness	300 cd/m ²			
	Backlight	LED			
	Touch Screen	High precision four-wire resistive			
	Backlight Life	30000 hours			
	CPU	32-bits 400MHz RISC			
	Storage	128M FLASH + 64M DDRAM			
	RTC	256KB			
	Printer Port	Serial port Printer			
	USB Port	Micro-USB	USB	Micro-USB	Micro-USB
	SD card	-			
	COM	COM1	RS422/RS485		
COM2		RS232			
COM3		-			
Power	Power	< 5W			
	Power Supply	DC24V (12 ~ 28V DC)			
	Allowed Power Fail	< 5ms			
	Insulation Resistance	>20MΩ 500VDC			
	Withstand Voltage	500V AC <1 minute			
Dimension	Shell	ABS, Black			
	Dimension (mm)	96.0W*81.0H*33.0D	141.4W*85.4H*38.9D	142.0W*86.0H* 30.3D	142.0W*86.0H* 30.3D
	Mounting size (mm)	91.0W* 73.0H	131.0W*79.0H	131.0W* 78.0H	131.0W* 78.0H
	Net / Gross (KG)	0.14/0.26	0.23 / 0.39	0.19/0.30	0.19/0.30
	Temperature	Working Temperature : -10 ~ 60℃ ; Storage Temperature : -20 ~ 70℃			
Environment	Humidity	10 ~ 85%RH(Non-condensing)			
	Seismic Resistance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)			
	Cooling	Air cooling			
Extension	Ethernet	-	-	--	YES
	CAN	-	-	--	-
	TTS	-	-	--	-
	COM3	-	-	--	-
	Protection	IP65 (Front panel)			
CE Certification	CE Marked				
FCC Certification	FCC Class A				

LEVI SERIES SPECIFICATIONS

Standard HMI



Model

LEVI2070 LEVI700ML LEVI102ML

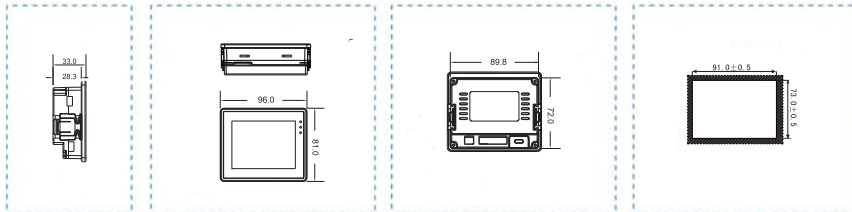
General	Screen Size	7 Inch	7 Inch	10.2 Inch
	Resolution	800*480	800*480	800*480
	Color	16,000k Color		
	Brightness	250cd/m ²	250cd/m ²	350cd/m ²
	Backlight	LED		
	Touch Screen	High precision four-wire resistive		
	Backlight Life	30000 hours		
	CPU	32-bits 300MHz RISC		
	Storage	128M FLASH + 64M DDRAM		
	RTC	256KB		
	Printer Port	Serial port Printer		
	USB Port	USB Host + USB Client		
	SD card	-		
	COM	COM1	RS422/RS485	RS422/RS485
COM2		RS232	RS232	RS232
COM3		-	-	-
Power		Less than 8W	Less than 8W	Less than 8W
Power	Power Supply	DC24V (12 ~ 28V DC)		
	Allowed Power Fail	< 5ms		
	Insulation Resistance	Up on 20MΩ 500VDC		
	Withstand Voltage	500V AC <1 minute		
	Shell	Grey, PC+ABS	ABS, Black	ABS, Black
Dimension	Dimension (mm)	201.0W*147.0H*39.0D	201.0W*146.0H*36.0D	272.0W*190.7H*41.3D
	Mounting size (mm)	192.0W*138.0H	192.0W*138.0H	260.0W*179.0H
	Net / Gross (KG)	0.5 / 0.74	0.56 / 0.80	1.04 / 1.37
	Temperature	Working Temperature : -10 ~ 60℃ ; Storage Temperature : -20 ~ 70℃		
	Humidity	10 ~ 85%RH(Non-condensing)		
Environment	Seismic Resistance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)		
	Cooling	Air cooling		
	Ethernet	--	--	--
Extension	CAN	--	--	--
	TTS	--	--	--
	COM3	--	--	--
	Protection	IP65 (Front panel)		
CE Certification	CE Marked			
FCC Certification	FCC Class A			

INSTALLATION DIMENSION

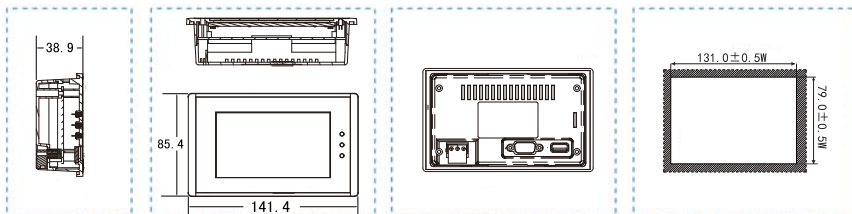
LEVI700ML is same to PI8070[P10] * LEVI102ML is same to PI8102[P10]

*Unit: mm

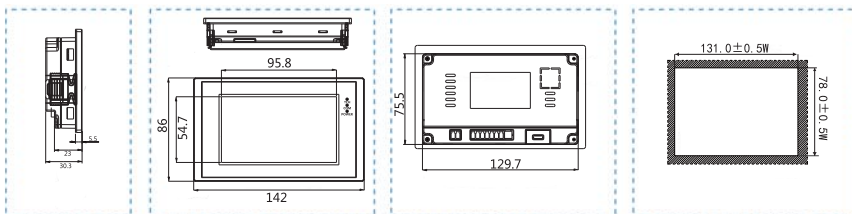
LEVI2035T



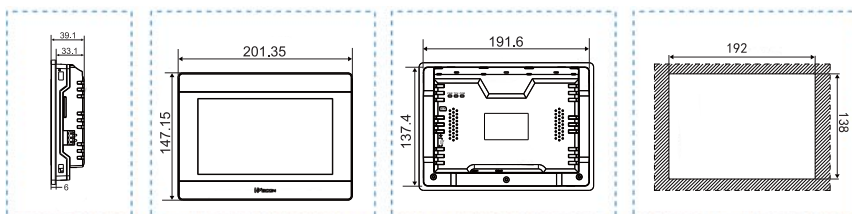
LEVI2043T



LEVI2043E



LEVI2070



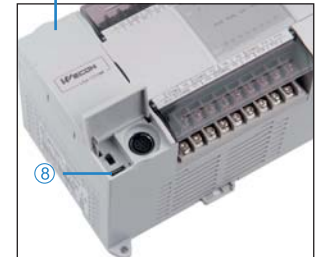
PROGRAMMABLE LOGIC CONTROLLER

PLC Introduction



1. Universal Power Supply Design —85–264V AC 50/60 HZ, wide range power supply.
2. All core components used are from well-known global brands.
3. The 'Three layer coating' ensures the reliability in harsh environment.
4. Flash memory data storage, saves data for at least one century even in the case failure of the battery.
5. 200 KHz high speed optical isolated designed Inputs/outputs.
6. Com port – 600 TVS, static surge protection.
7. RS485 communication port ensures the reliability of communication in vibration.
8. Most reliable and stable high speed USB port for programming download/monitor.

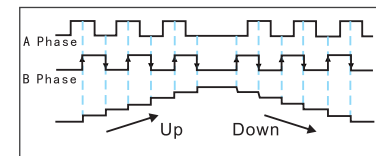
⑦



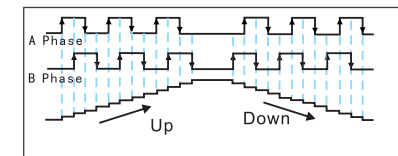
High Speed Pulse Input



- External high speed pulse input supports Encoder (AB phase) input, pulse + direction mode input; Maximum support for 200 KHz pulse signal input.
- AB phase signal can support configurable frequency settings (i.e. x1, x2 or x4).



2-doubling

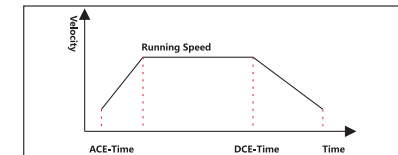


4-doubling

High Speed Pulse Output



- Supports high speed pulse signal output with acceleration and deceleration.
- The acceleration and deceleration time are configurable.
- Pulse modulation output.



Program Encryption



It prevents users from illegal copying and tampering of the program.

Subprogram Encryption

Partial encryption function of the ladder diagram can be realized, and it can encrypt subprograms and interrupts. This function enables protection of important subprogram segment. By choosing the subprogram and setting the password, it can be encrypted. Once it has been encrypted than the subprogram is in "subprogram encryption" state and the contents encrypted will not be displayed.

Ladder Encryption Methods

The PLC encryption includes project encryption, upload password and download password. All of those passwords can be used for the entire ladder program.

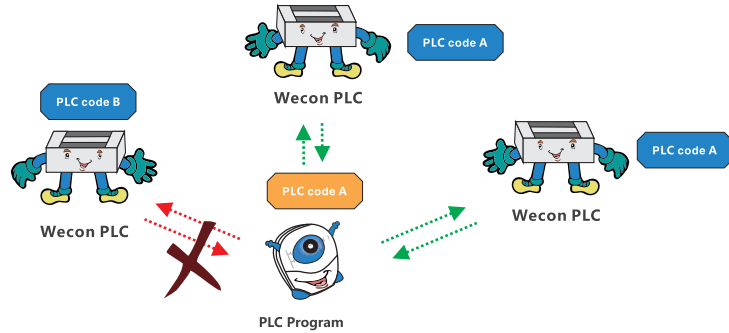
All these kinds of passwords are independent from each other (user need to set password separately during each of these operations), the password can be same or different to ensure copyright of PLC.



PROGRAMMABLE LOGIC CONTROLLER

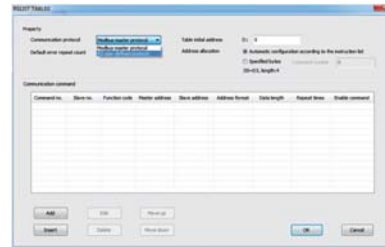
PLC Host and Program Encryption

For additional protection of the program, project building can be dedicated to the specified PLC model. PLC identification code and program identification code can be introduced. User can set the program identification code of the project and also can set a PLC identification code for the PLC. So, the software will compare the program identification code and PLC identification code at every attempt of the upload or download of the program and can be executed to only designated PLC.



Modbus Listed Instruction

In the original MODBUS protocol, users must program RS instruction in ladder. But the editing process is quite cumbersome and imperfect. With the help of new method (RSLIST+RSLIST communication list), it becomes easier.

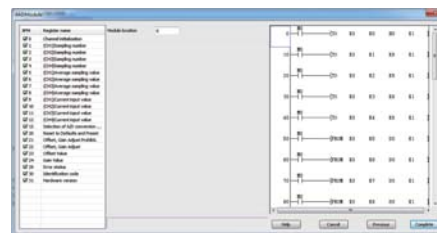


Features of PLC Wizard Function

- Modules monitor function guides the user to monitor the BFM data in real time. This function reduces customer dependency on module manuals.
- It guides the user to generate the ladder program with the corresponding content (i.e. instruction, modules, BD board, etc.). It saves customer's comprehension time and reduces error which may occur while editing themselves. Also it will help the user to create functioning ladder more quickly.



PID Operation Wizard Setting



LX-4AD Module Wizard Setting

APPLICATION

PLC LX3VP Series

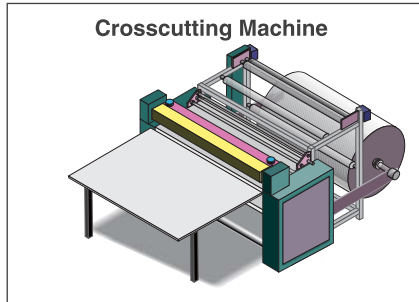
- Supports 4 independent channels of 200 KHz high speed pulse simultaneously. The maximum frequency for each channel is 200 KHz (either in acceleration or deceleration).
- Supports 64 K step ladder diagram.
- Supports N:N PLC network up to 8 PLCs.
- T50~T191 can be converted to 1 ms non-cumulative timer by using special function register M8028.

Printing machine includes several parts, including the front edge deliver component segment (with several printing segment), slot and dice segment. By using N:N communication protocol, several PLCs can communicate with each other which improves production efficiency significantly.



PLC LX3VE Series

- Up to 4 channels each of 200 KHz high speed pulse outputs are supported, all 4 channels can work simultaneously.
- Supports 32k steps ladder diagram.
- Supports electronic CAM.
- Supports flying cut and rotary cut.
- Supports jitter pulse output.
- Supports S-type curve to meet special demands.



Crosscutting machine belongs to carton processing machinery. The crosscutting machine is used in the production line of the corrugated board. It is used for the cutting of the finished cardboard. The technical feature and equipment adjustment status directly affects the accuracy of the finished cardboard's cutting sizes and the appearance of the pressure line.



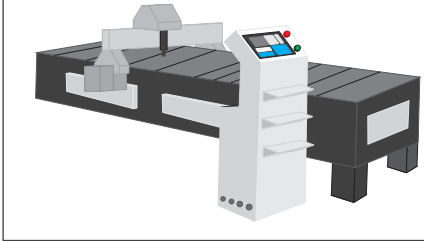
Side Cutting Machine is a CNC machine for punching of holes in the side of the plate type furniture. It is suitable for horizontal hole machining and horizontal slotting. It has features like, Infrared automatic induction, accurate detection of the hole position, accurate movement distance, low error, simple operation, eliminate the need of skilled workers, convenient and efficient.

PLC LX3VM Series

- Up to 4 channels independent 200 KHz high speed pulse output are supported, 4 channels can be used simultaneously.
- Supports 32k steps ladder diagram.
- Three axis liner interpolation (Y0,Y1,Y2) and two axis circular interpolation are supported.
- Supports electronic CAM.
- Supports Jitter pulse output.

APPLICATION

Cutting Machine



Through the linear-circle interpolation function, the cutting machine realizes the multi axis path positioning control, improves cutting efficiency, quality and relieves the working intensity.

LX3V-2WT

- 2 channels weighing signal input.
- Hardware 24-bits AD input (2: 24-bit Resolution).
- Support 1~2400 Hz frequency conversion.
- Adjustable setting of Digital filter.
- Adjustable setting of Tare weight and Net weight.

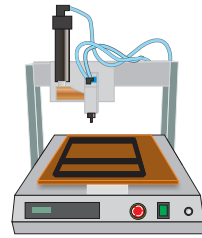
Screw packaging machine is a typical equipment for vibrating plate feeding, screw weighing and packaging. It is difficult to count the actual number of screws dropped down from plate by optical bit counter because of the irregular shape of the object to be weighed. Therefore, it is divided into multistage speed to control the vibration of the feeding plate, it uses the round up and round down (half adjust) to complete counting process. The first part uses the weight measurement, the second part uses the number to compare whether the set weight is achieved.

LX3V-4LTC

LX3V-4LTC is temperature control module, it has four temperature input ports and four transistor output ports (open collector). It reads data from the thermocouple, and give output value with PID control algorithm.

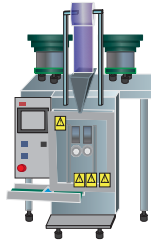
Battery Drying Oven, its working process includes warming – cooling – vacuum – forcing – nitrogen filling. The project has total 100 processes comprises two different process cycles. Data monitoring, data acquiring, PID Auto-tuning (self-tuning). Measurement of Temperature at different 12 points. There difference in the temperature at upper, lower, middle, center of the oven. So, temperature gradient is there and homogeneity of the oven is affected.

Glue Injector Machine/Glue Dispenser

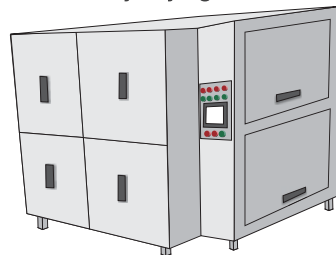


Glue injector machine realizes multi-axes path positioning control through linear arc interpolation function and operate it according to the set path. It can be set to semi-automatic, fully automatic, adjustment and other modes.

Screw Packaging Machine



Battery Drying Oven



EXPANSION MODULE

PLC EXPANSION MODULE

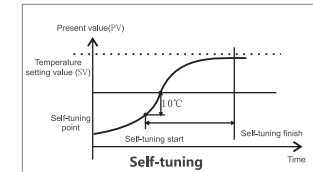
- Multi-module connection :**
Maximum 16 analog modules(requires additional power supply)
Maximum 8 Digital modules(requires additional power supply)
- DA module resolution :12 bits**
- PT/TC module resolution**
S-type sensor:-50~+1768 (degree centigrade)
R-type sensor:-50~+1768 (degree centigrade)
B-type sensor:+250~+1820 (degree centigrade)
N-type sensor:-200~+1300 (degree centigrade)
E-type sensor:-200~+1000 (degree centigrade)
T-type sensor:-200~+400 (degree centigrade)
J-type sensor: -210~+600 (degree centigrade)
K-type sensor:-200~+1372 (degree centigrade)
PT100 sensor:-200~+600 (degree centigrade)

- AD module resolution :16 bits**
- WT module resolution :24 bits**



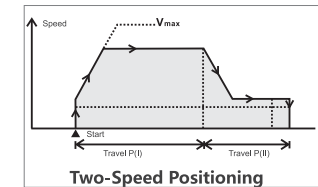
LX3V-8iTC

- 8 channels for temperature acquiring; Multiple sensor types are supported; Supports thermocouple types like K, S, E, N, B, T, J and R.
- All 8 channels are isolated from each other.
- Built-in cold junction compensation, external cold junction compensation, freezing cold junction compensation method.



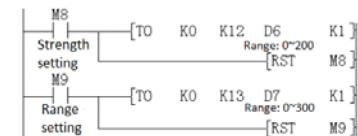
LX3V-4PGA

- Supports 4-channel high speed pulse outputs.
- Supports zero point return, JOG, interrupt position and two-speed pulse control.
- Supports S-type acceleration and deceleration.
- Maximum supports for 200k pulse output.
- Interrupt signal, origin signal input.



LX3V-2WT

- 2 channels weighing signal input.
- Hardware 24-bits AD input (2: 24-bit Resolution).
- Supports 1~2400 Hz frequency conversion.
- Adjustable setting of Digital filter.
- Adjustable setting of Tare weight and Net weight.
- Zero-tracking can reduce the influence of temperature drift effective.



BD BOARD

Analog BD BOARD



Multiple Mixed

Low Cost

Small Size

Two BD-board access (Analog Module + Communication module)



Model	Resolution	Input/Output Range	Data Range
DA	12	Output Current : 4~20mA	0~2000
AD	12	Input Current : 4~20mA	0~2000
PT	14	Sensor:PT100-100~600°C	-1000~6000
TC	14	Sensor:Ktype-100~1200°C	-1000~12000
TC	14	Sensor:Jtype-100~600°C	-1000~6000
DAV	12	Output Voltage:-10~10V	-2000~2000
ADV	12	Input Voltage:-10~10V	-2000~2000

Communication Expansion



LX3V-2RS485-BD



LX3V-2RS485-BD can add two additional RS485 communication ports.

- Data transfer without protocol
It supports all type of devices with RS-485 communication without protocol. e.g. bar code reader and printer. Data's sending and receiving is implemented by the RS instruction.
- Special protocol for data transferring
Using a special protocol, data transmission can be possible based on 1: N on RS-485 communication.

LX3VP-CAN Communication (Only some models of 3VP supported [LX-3VP2416 Mix supported])

- For Good real-time communication, strong correction ability and stable communication.
- Supports CANopen standard protocol DS301 V4.02.
- Supports 16 slave devices when used as master.
- Free configuration by using CANopen network configuration software "CANopen Tool".
- It works as a master or a slave.

LX3VP-ETH-BD



By using LX3VP-ETH-BD, Ethernet port can be added.

- Supports Modbus-Tcp protocol.
- Maximum 8 devices can be connected (no master-slave) to one LX3VP-EH-BD module.

LX3V SERIES PLC PRODUCT

LX3V Series



PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	Pulse Output	RS485	BD Board	Module	Power Supply
LX3V-0806MR-A1(D1)	8/6	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-0806MT-A1(D1)	8/6	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-0806MR-A2(D2)	8/6	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-0806MT-A2(D2)	8/6	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR-A1(D1)	12/8	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-1208MT-A1(D1)	12/8	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR-A2(D2)	12/8	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-1208MT-A2(D2)	12/8	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR2H-A2(D2)	12/8	Mix	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1212MR-A(D)	12/12	Relay	136x107x87	2	0	1	1	YES	AC (DC)
LX3V-1212MT-A(D)	12/12	Transistor	136x107x87	2	2	1	1	YES	AC (DC)
LX3V-1212MT4H-A(D)	12/12	Transistor	136x107x87	2	4	1	1	YES	AC (DC)
LX3V-1212MR2H-A(D)	12/12	Mix	136x107x87	2	2	1	1	YES	AC (DC)
LX3V-1412MR-A(D)	14/12	Relay	136x107x87	2	0	1	1	YES	AC (DC)
LX3V-1412MT-A(D)	14/12	Transistor	136x107x87	2	2	1	1	YES	AC (DC)
LX3V-1412MT4H-A(D)	14/12	Transistor	136x107x87	2	4	1	1	YES	AC (DC)
LX3V-1412MR2H-A(D)	14/12	Mix	136x107x87	2	2	1	1	YES	AC (DC)
LX3V-1616MR-A(D)	16/16	Relay	175x107x87	2	0	1	2	YES	AC (DC)
LX3V-1616MT-A(D)	16/16	Transistor	175x107x87	2	2	1	2	YES	AC (DC)
LX3V-1616MT4H-A(D)	16/16	Transistor	175x107x87	2	4	1	2	YES	AC (DC)
LX3V-1616MR2H-A(D)	16/16	Mix	175x107x87	2	2	1	2	YES	AC (DC)
LX3V-2416MR-A(D)	24/16	Relay	175x107x87	2	0	1	2	YES	AC (DC)
LX3V-2416MT-A(D)	24/16	Transistor	175x107x87	2	2	1	2	YES	AC (DC)
LX3V-2416MT4H-A(D)	24/16	Transistor	175x107x87	2	4	1	2	YES	AC (DC)
LX3V-2416MR2H-A(D)	24/16	Mix	175x107x87	2	2	1	2	YES	AC (DC)
LX3V-2424MR-A(D)	24/24	Relay	221x107x87	2	0	1	2	YES	AC (DC)
LX3V-2424MT-A(D)	24/24	Transistor	221x107x87	2	2	1	2	YES	AC (DC)
LX3V-2424MT4H-A(D)	24/24	Transistor	221x107x87	2	4	1	2	YES	AC (DC)
LX3V-2424MR2H-A(D)	24/24	Mix	221x107x87	2	2	1	2	YES	AC (DC)
LX3V-3624MR-A(D)	36/24	Relay	221x107x87	2	0	1	2	YES	AC (DC)
LX3V-3624MT-A(D)	36/24	Transistor	221x107x87	2	2	1	2	YES	AC (DC)
LX3V-3624MT4H-A(D)	36/24	Transistor	221x107x87	2	4	1	2	YES	AC (DC)
LX3V-3624MR2H-A(D)	36/24	Mix	221x107x87	2	2	1	2	YES	AC (DC)

LX3VP SERIES PLC PRODUCT

LX3VP Series



PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	Pulse Output	RS485	CAN	BD Board	Module	Power Supply
LX3VP-1208MR-A(D)	12 / 8	Relay	75x107x87	2	0	1	N/A	1	N/A	AC (DC)
LX3VP-1208MT-A(D)	12 / 8	Transistor	75x107x87	2	2	1	N/A	1	N/A	AC (DC)
LX3VP-1212MR-A(D)	12 / 12	Relay	136x107x87	2	0	1	N/A	1	YES	AC (DC)
LX3VP-1212MT-A(D)	12 / 12	Transistor	136x107x87	2	2	1	N/A	1	YES	AC (DC)
LX3VP-1212MT4H-A(D)	12 / 12	Transistor	136x107x87	2	4	1	N/A	1	YES	AC (DC)
LX3VP-1212MR2H-A(D)	12 / 12	Mix	136x107x87	2	2	1	N/A	1	YES	AC (DC)

LX3VP-1412MR-A(D)	14 / 12	Relay	136x107x87	2	0	1	N/A	1	YES	AC (DC)
LX3VP-1412MT-A(D)	14 / 12	Transistor	136x107x87	2	2	1	N/A	1	YES	AC (DC)
LX3VP-1412MT4H-A(D)	14 / 12	Transistor	136x107x87	2	4	1	N/A	1	YES	AC (DC)
LX3VP-1412MR2H-A(D)	14 / 12	Mix	136x107x87	2	2	1	N/A	1	YES	AC (DC)

LX3VP-1616MR-A(D)	16 / 16	Relay	175x107x87	2	0	1	N/A	2	YES	AC (DC)
LX3VP-1616MT-A(D)	16 / 16	Transistor	175x107x87	2	2	1	N/A	2	YES	AC (DC)
LX3VP-1616MT4H-A(D)	16 / 16	Transistor	175x107x87	2	4	1	N/A	2	YES	AC (DC)
LX3VP-1616MR2H-A(D)	16 / 16	Mix	175x107x87	2	2	1	N/A	2	YES	AC (DC)

LX3VP-2416MR-A(D)	24 / 16	Relay	175x107x87	2	0	1	Optional	2	YES	AC (DC)
LX3VP-2416MT-A(D)	24 / 16	Transistor	175x107x87	2	2	1	Optional	2	YES	AC (DC)
LX3VP-2416MT4H-A(D)	24 / 16	Transistor	175x107x87	2	4	1	Optional	2	YES	AC (DC)
LX3VP-2416MR2H-A(D)	24 / 16	Mix	175x107x87	2	2	1	Optional	2	YES	AC (DC)

LX3VP-2424MR-A(D)	24 / 24	Relay	221x107x87	2	0	1	N/A	2	YES	AC (DC)
LX3VP-2424MT-A(D)	24 / 24	Transistor	221x107x87	2	2	1	N/A	2	YES	AC (DC)
LX3VP-2424MT4H-A(D)	24 / 24	Transistor	221x107x87	2	4	1	N/A	2	YES	AC (DC)
LX3VP-2424MR2H-A(D)	24 / 24	Mix	221x107x87	2	2	1	N/A	2	YES	AC (DC)

LX3VP-3624MR-A(D)	36 / 24	Relay	221x107x87	2	0	1	N/A	2	YES	AC (DC)
LX3VP-3624MT-A(D)	36 / 24	Transistor	221x107x87	2	2	1	N/A	2	YES	AC (DC)
LX3VP-3624MT4H-A(D)	36 / 24	Transistor	221x107x87	2	4	1	N/A	2	YES	AC (DC)
LX3VP-3624MR2H-A(D)	36 / 24	Mix	221x107x87	2	2	1	N/A	2	YES	AC (DC)

LX3VE&3VM SERIES PLC PRODUCT

LX3VE Series



PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	E-CAM	Pulse Output	RS485	BD Board	Module	Power Supply
LX3VE-1412MT-A	14 / 12	Transistor	136x107x87	2	YES	2	1	1	YES	AC
LX3VE-1412MT4H-A	14 / 12	Transistor	136x107x87	2	YES	4	1	1	YES	AC
LX3VE-1616MT-A	16 / 16	Transistor	175x107x87	2	YES	2	1	2	YES	AC
LX3VE-1616MT4H-A	16 / 16	Transistor	175x107x87	2	YES	4	1	2	YES	AC
LX3VE-2416MT-A	24 / 16	Transistor	221x107x87	2	YES	2	1	2	YES	AC
LX3VE-2416MT4H-A	24 / 16	Transistor	221x107x87	2	YES	4	1	2	YES	AC
LX3VE-2424MT-A	24 / 24	Transistor	221x107x87	2	YES	2	1	2	YES	AC
LX3VE-2424MT4H-A	24 / 24	Transistor	221x107x87	2	YES	4	1	2	YES	AC
LX3VE-3624MT-A	36 / 24	Transistor	221x107x87	2	YES	2	1	2	YES	AC
LX3VE-3624MT4H-A	36 / 24	Transistor	221x107x87	2	YES	4	1	2	YES	AC

LX3VM Series



PLC Model	I/O	Output type	Dimension (mm)	Pulse Counter	E-CAM	Interpolation	Pulse Output	RS485	BD Board	Module	Power Supply
LX3VM-1412MT-A	14 / 12	Transistor	136x107x87	2	YES	YES	2	1	1	YES	AC
LX3VM-1412MT4H-A	14 / 12	Transistor	136x107x87	2	YES	YES	4	1	1	YES	AC
LX3VM-1616MT-A	16 / 16	Transistor	175x107x87	2	YES	YES	2	1	2	YES	AC
LX3VM-1616MT4H-A	16 / 16	Transistor	175x107x87	2	YES	YES	4	1	2	YES	AC
LX3VM-2416MT-A	24 / 16	Transistor	221x107x87	2	YES	YES	2	1	2	YES	AC
LX3VM-2416MT4H-A	24 / 16	Transistor	221x107x87	2	YES	YES	4	1	2	YES	AC
LX3VM-2424MT-A	24 / 24	Transistor	221x107x87	2	YES	YES	2	1	2	YES	AC
LX3VM-2424MT4H-A	24 / 24	Transistor	221x107x87	2	YES	YES	4	1	2	YES	AC
LX3VM-3624MT-A	36 / 24	Transistor	221x107x87	2	YES	YES	2	1	2	YES	AC
LX3VM-3624MT4H-A	36 / 24	Transistor	221x107x87	2	YES	YES	4	1	2	YES	AC

MODULE&BD BOARD PRODUCT



PLC Module >>

Module	Specification	Module	Specification
LX3V-8EX	8 Input	LX3V-4AD	4 * Analog Input
LX3V-8EYR	8 Relay Output	LX3V-4DA	4 * Analog Output
LX3V-8EYT	8 Transistor Output	LX3V-4PT	4 * Thermal Resistance Input
LX3V-16EX	16 Input	LX3V-4TC	4 * Thermocouple Input
LX3V-16EYR	16 Relay Output	LX3V-4LTC	4 * TC with Isolation(PID Control)
LX3V-16EYT	16 Transistor Output	LX3V-8ITC	8*Thermocouple Input
LX3V-1WT	1 * Weighting	LX3V-2WT	2 * Weighting
LX3V-4PGA	4*pulse generator (Advanced)	LX3V-4PGB	4*pulse generator (Basic)

PLC BD Board >>

BD Board	Function	BD Board	Function
LX3V-2AD2DA-BD	2*Analog Input/Analog Output(4~20mA)	LX3V-2TC-BD	2*Thermocouple Input
LX3V-2ADV-BD	2*Analog Voltage Input(-10V~10V)	LX3V-2TC2DA-BD	2*Thermocouple Input ; 2*Analog Output(4~20mA)
LX3V-2ADI-BD	2*Analog Current Input(4~20mA)	LX3V-2PT-BD	2*Thermal Resistance Input
LX3V-2DAI-BD	2*Analog Current Output(4~20mA)	LX3V-2PT2DA-BD	2*Thermal Resistance Input; 2*Analog Output(4~20mA)
LX3V-2DAV-BD	2*Analog Voltage Output(-10V~10V)	LX3V-2PT2DAV-BD	2*Thermal Resistance Input; 2*Analog Voltage Output(-10V~10V)
LX3V-4ADV-BD	4*Analog Input(-10V~10V)	LX3V-2PT2ADV-BD	2*Thermal Resistance Input; 2*Analog Voltage Output(-10V~10V)
LX3V-4ADI-BD	4*Analog Input(4~20mA)	LX3V-2RS485-BD	2*RS485 Communication
LX3VP-ETH-BD	1*Ethernet Communication	LX3V-2ADV2ADV-BD	2*Analog Input/Output(-10V~10V)
LX3V-2PTS-BD	2*Thermal Resistance Input, -190~600°C, Precision:0.025°C~0.05°C		

PLC SPECIFICATIONS

General >>

	LX3V Series	LX3VP Series	LX3VE/3VM Series
Running Mode	Round Scan/Interrupt		
Programming	Instruction List/Ladder		
Total Instructions	Basic Instructions:27/Applied Instruction:136+2		140
Execute time	Basic Instructions:0.06us/Applied Instruction:1~10us		
System Storage	16K	64K	32K
Download/Monitoring	Serial Programming Cable/MiniUSB		
High Speed Pulse Output	Transistor: 2 channels(4 channel optional)/Relay N/A(2 channel optional)		
External Interrupt	6 Channels		
Timer Interrupt	3 Channels		
Holding Addresses	Adjustable		
Storage	FLASH		
Filter	For all X input terminals		
Serial Port	COM1 : RS422 or RS485 COM2 : RS485		
Temperature	Working Temperature : 0~55°C/ Storage Temperature : 0~70°C		
Humidity	35~85%RH (Without condensation)		
Shock Resistance	JISC0040 Standard		
Noise Immunity	Noise Voltage:1000Vp-p, Pulse Width:1us, Frequency:30~100Hz(Noise Simulator)		

Output >>

Item	Relay Output	Transistor Output
Output Mode	-	NPN
Input Power Supply	DC 24V	DC 24V
Output Circuit	<AC 250V;<DC 30V	DC 5~30V
COM Port Current	-	<0.1mA (DC30V)
Insulation	Mechanistic	Optical Coupling
Leak current	-	0.1mA/DC30V
Min.Load	-	DC 5V2mA
Max.Load	Resistive	2A point 8A COM port 0.5A point 0.8A COM port 0.3A HSPO point
	Inductive	80VA 12W/DC 24V7.2WHSP0 point
	General	100W 0.9W/DC 24V
ResponseTime	ON	<0.2ms
	OFF	<10ms (Pulse out put terminal: <5us)

PLC SPECIFICATIONS

AC Power Supply



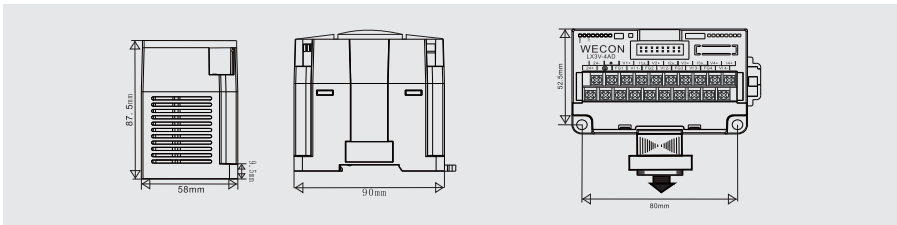
Item	LX3V(P)-0806M/1208M/1212M/1412M	LX3V(P)1616M/2416M/3624M
Voltage	AC100~240V50~60Hz	
Power Outage Time	10ms	
Rush Current	<15A 5ms/AC 100V;<30A 5ms/AC 200V	
Power Fuse	250V1A	250V3.15A
Power Consumption	<35W	<60W
Power Output	DC 24V 850mA	DC 24V 700mA

DC Power Supply

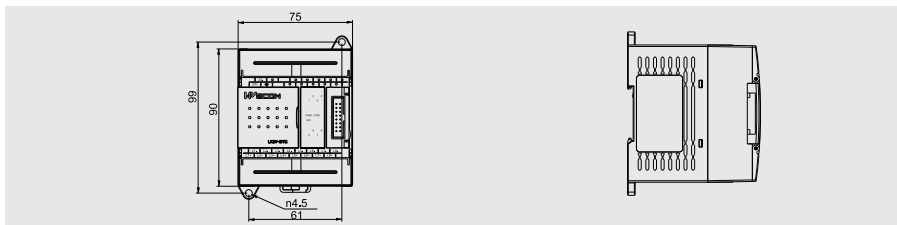


Item	LX3V/LX3VP
Power Supply	DC 24V±10%
Power Outage Time	10ms
Power Fuse	250V 3.15A
Rush Current	<15 A1ms/DC 24V
Power Consumption	<30W

LX3V-[[[]]]-Module



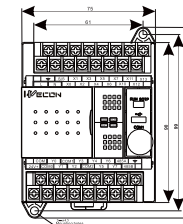
LX3V- 8iTC



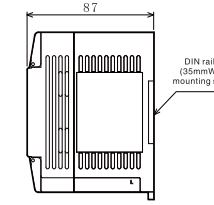
PLC SPECIFICATIONS

*Unit : mm

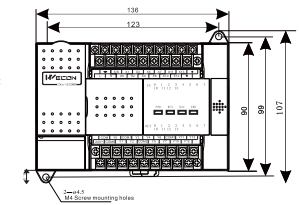
PLC Dimension



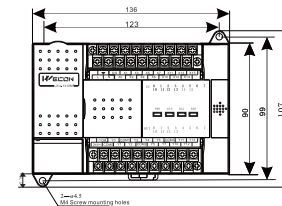
0806MX / 1208MX



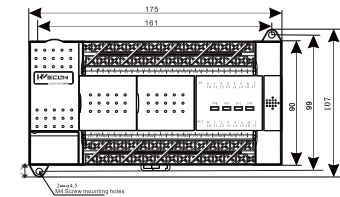
PLC Side



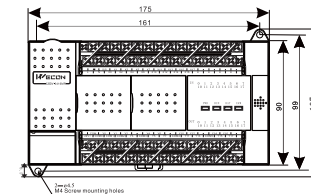
1212MX



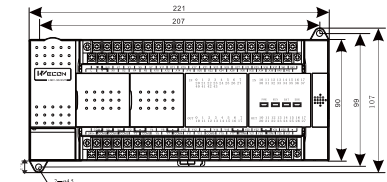
1412MX



1616MX



2416MX



2424MX/3624MX