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PRODUCTS CATALOG

Human Machine Interface/Programmable Logic Controller/
Servo Drive & Motor/IIoT V-BOX/Inverter

WECON is a high technology company on automation and its solution, headquartered in Fuzhou software park, Fujian China. Wecon dedicates all the efforts to provide integrated products and solution on automation, such as Human Machine Interface (HMI), Programmable Logic Controller (PLC), Servo Drive&Motor, IIoT V-BOX and Inverter.

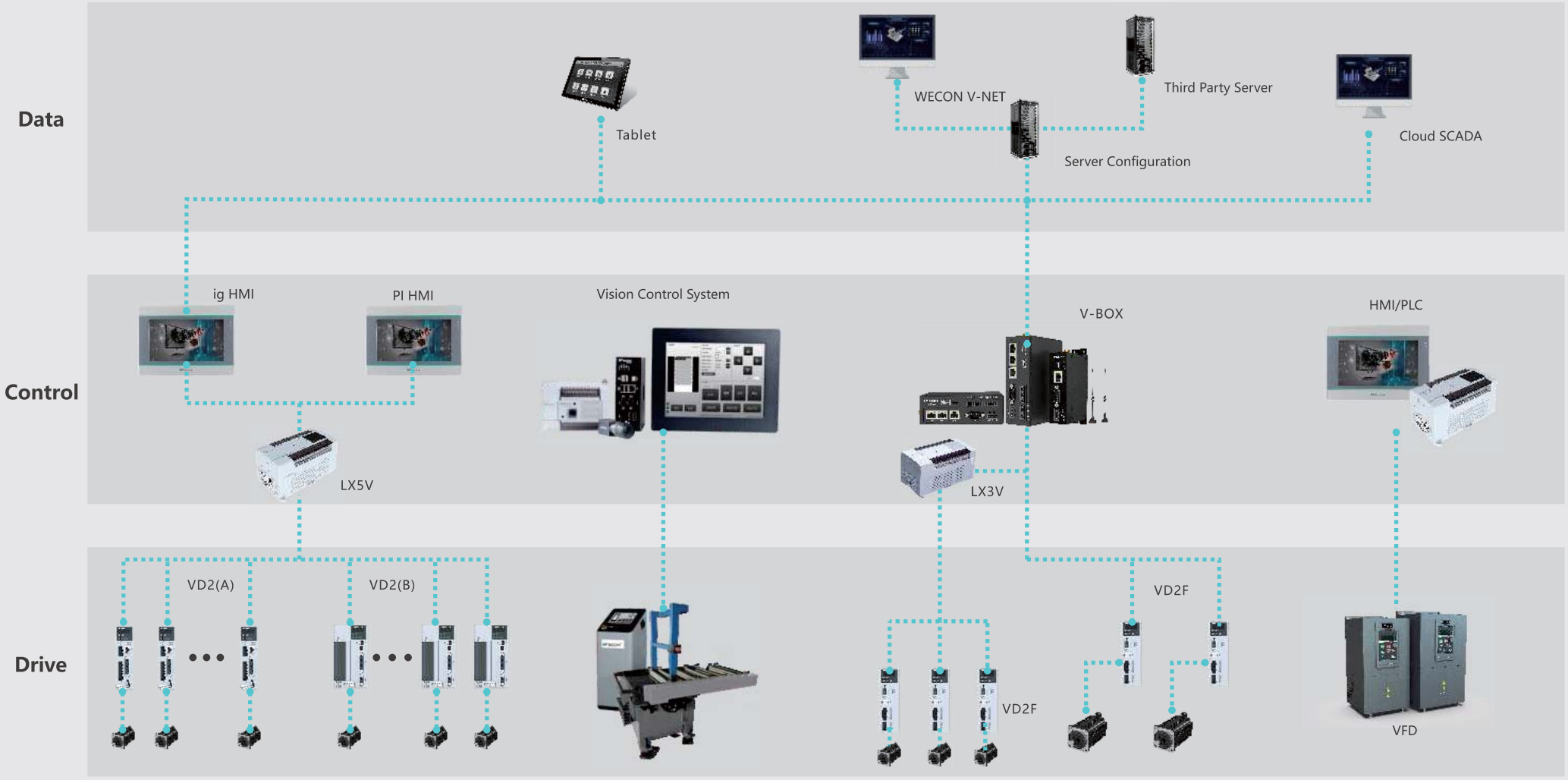
WECON has modernized factory over 10,000 square meters in Fuzhou, the R&D and production department strictly follows ISO9001 quality management system, and all products are certificated by CE and FCC. The R&D center has more than 3,000 square meters in Fuzhou, with more than 150 R&D engineers work here.

Until July 1st 2021, WECON have been authorized over 100 independent intellectual property rights, which includes 4 Invention Patents, 15 Utility patents, 9 Design Patents, and 72 software intellectual property rights. WECON has over 40 domestic offices all over China, more than 30 foreign distributors in 22 countries. WECON business covers most main industrial countries, locating in Asia, Europe, North America, South America, Oceania and Africa.

2019 is an important year of WECON globalization. In this time, we start to have international employees, now have employees from Turkey, Egypt, and Brazil. They are dedicated efforts and wisdom to support customers success and improve the industry level of the world. WECON provides services such as technical support and maintenance all over the world. Overseas customers could buy products and enjoy services locally and conveniently.

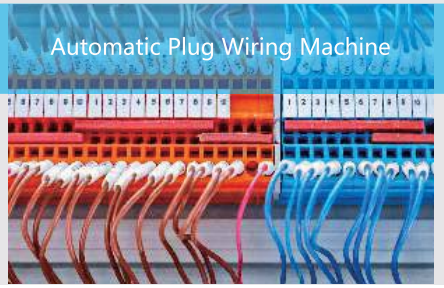
Wecon have opened local offices for sales and support in Turkey, Egypt and Brazil. Wecon have plan to open more than 10-15 offices in other countries within 2 years.

Content


Data
Tablet
WECON V-NET
Third Party Server
Server Configuration
Cloud SCADA
Control
ig HMI
PI HMI
Vision Control System
V-BOX
HMI/PLC
LX5V
LX3V
Drive
VD2(A)
VD2(B)
VD2F
VD2F
VFD


Smart Treatment for Water


Smart Factory


Automatic Plug Wiring Machine


Textile Machinery

WECON HMI

ig Series IoT HMI

ig IoT HMI, create for the Internet of Things

Installment

Installment function
Users can set fixed installment or dynamic installment in HMI in advance to help customers effectively recover the unsettled balance within a certain period of time.

HMI Recipe

Users can configure the recipe file data on the HMI, and easily switch between different production modes.

Device Management

- Multi-device management
- Multi-authority account

Alarm Notification

- Alarm SMS push(4G models)
- Upload and download alarm records

User Permission Management

The HMI project can set the user permission and usage permission for different users to protect operation of the device.

Multi-language Display

Wecon HMI supports maximum 8 languages, facilitating the use of WECON HMI in many countries.

Remote Maintenance

- Sync data to cloud
- Remote access
- WVPN pass-through
- Remote debug

System Integration

- Cloud SCADA
- Big screen display
- Equipment connection

PI8150ig High Definition IoT HMI

Aluminium Alloy Panel

High-definition
Wide Viewing Angle

Big Screen

More convenient operation
Display in high-definition and high quality

1920×1080

Aluminium Alloy Panel

Strong anti-interference, excellent heat dissipation
Anti-corrosion, and high temperature resistance

4-core CPU

With Cortex A35 1.2GHz high performance processor
PI8150ig has powerful operation processing capability

Complete IoT Functions

MQTT cloud protocol and database server connection
Supported more powerful IoT functions

- Real-time Monitoring Points: 300
- Alarm Monitoring Points: 200
- History Monitoring Points: 100
- History Storage: 120 days / 1 millions

PI3000ie Series HMI

Quad Core CPU
Fast and Fluent Touch

Fast

6 seconds for booting
100ms for screen switch

Numerous

300+ communication protocols
50+ objects

Unique

Unique installment function
Unique user permission management
Unique data encryption function

Reliable

Enhance software security
Better communication Stability
Waterproof and heat cooling

ig SPECIFICATIONS

Basic HMI



Model	PI3070ig	PI3102ig	PI8150ig

Item		Specifications		
CPU		Cortex A35 1.2GHz		
Touch Screen		Resistive		
Display	Screen Size	7 Inch	10.2 Inch	15 Inch
	Resolution	800*480	1024*600	1920*1080
	Brightness	250 cd/m²	350 cd/m²	250 cd/m²
	Backlight Type	LED		
	Backlight Life	50,000 Hours		
	Colors	16,000k colors		2,60k colors
Storage	Flash	128 MB		4GB
	RAM	DDRIII 128MB		DDRIII 512MB
	SD Card	YES		YES (TF card)
I/O Port	USB	USB Host：USB 2.0 x 1；USB Client： USB 2.0 x 1 （cannot be used at the same time）		
	Serial Port	Type 1: COM1(RS232), COM1(RS485), COM1(RS485)		
		Type 2: COM1(RS232), COM1(RS422), COM1(RS485)		
	Ethernet	YES		
	CAN	N/A		
	4G/WIFI Module	Optional		
Permanent Calendar		Built-in		
Power	Power Supply	24V DC (12~28V DC)		24V DC (18~28VDC)
	Power Consumption	<8W	<10W	<15W
Dimension	Enclosure	Plastic+ABS （Polycarbonate）		Aluminum + Metal + ABS
	Dimension(mm)	201.2W*147.2H*39.0D	272.0W*191.0H*41.5D	403.0W*253.0H*35.2D
	Mounting Size(mm)	192.0W*138.0H	260.0W*179.0H	394.0W*244.0H
	Net Weight (KG)	0.52	1.02	2.46
Environment	Protection	IP65 (Front panel)		
	Temperature	Storage: -20℃~70℃		Storage: -20℃~60℃
		Working: -10℃~55℃		Working: 0℃~50℃
	Humidity	10 ~ 90%RH (Non-condensing)		
	Vibration Resistance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)		
CE Certification		CE Marked		
FCC Certification		FCC Class A		
Programming Software		PI Studio		
Software	IoT Service (optional)	Real-time Monitoring Points: 100		Real-time Monitoring Points: 300
		Alarm Monitoring Points: 20		Alarm Monitoring Points: 200
		History Monitoring Points: 50		History Monitoring Points: 100
		History Storage: 60 days / 1 millions		History Storage: 120 days / 1 millions
	VPN Pass-through	YES		

ig SPECIFICATIONS

Basic HMI


Model	PI3070ig-O	PI3102ig-O

Item		Specifications	
CPU		Cortex A35 1.2GHz	
Touch Screen		Resistive	
Display	Screen Size	7 Inch	10.2 Inch
	Resolution	800*480	1024*600
	Brightness	250 cd/m²	350 cd/m²
	Backlight Type	LED	
	Backlight Life	50,000 Hours	
	Colors	16,000k colors	
Storage	Flash	128 MB	
	RAM	DDRIII 128MB	
	SD Card	YES	
I/O Port	USB	USB Host：USB 2.0 x 1；USB Client： USB 2.0 x 1 （cannot be used at the same time）	
	Serial Port	Type 1: COM1(RS232), COM1(RS485), COM1(RS485)	
		Type 2: COM1(RS232), COM1(RS422), COM1(RS485)	
	Ethernet	YES	
	CAN	N/A	
	4G/WIFI Module	N/A	
Permanent Calendar		Built-in	
Power	Power Supply	24V DC (12~28V DC)	
	Power Consumption	<8W	<10W
Dimension	Enclosure	Plastic+ABS （Polycarbonate）	
	Dimension(mm)	201.2W*147.2H*39.0D	272.0W*191.0H*41.5D
	Mounting Size(mm)	192.0W*138.0H	260.0W*179.0H
	Net Weight (KG)	0.52	1.02
Environment	Protection	IP65 (Front panel)	
	Temperature	Storage: -20℃~70℃; Working: -10℃~55℃	
	Humidity	10 ~ 90%RH (Non-condensing)	
	Vibration	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)	
CE Certification		CE Marked	
FCC Certification		FCC Class A	
Programming Software		PI Studio	
Remote Control		N/A	

PI3000ie SPECIFICATIONS

Basic HMI

Model	PI3035ie	PI3043ie	PI3043ieS-N

Item		Specifications		
CPU		Cortex A35 1.2GHz		
Touch Screen		Resistive		
Display	Screen Size	3.5 Inch	4.3 Inch	4.3 Inch
	Resolution	320*240	480*272	
	Brightness	300cd/㎡		
	Backlight Type	LED		
	Backlight Life Time	50,000 Hours		
	Colors	16,000k colors		
Storage	Flash	128MB		
	RAM	DDRII 64MB		
	SD Card	N/A		
	RTC	Real Time Clock		
I/O Port	Micro-USB	USB 2.0 x 1		
	Serial Port	Type 1: COM1(RS232), COM1(RS485)	Type 1: COM1(RS232), COM1(RS485)	Type 1: COM1(RS232), COM1(RS485), COM1(RS485)
		Type 2: COM1(RS232), COM1(RS422)	Type 2: COM1(RS232), COM1(RS422)	Type 2: COM1(RS232), COM1(RS422), COM1(RS485)
	Ethernet	N/A	YES	YES
Permanent Calendar		Built-in		
Power	Power Supply	24V DC(12~28V DC)		
	Power Consumption	< 5W		
Dimension	Enclosure	Plastic+ABS（Polycarbonate）		
	Dimension(mm)	96.0W*81.0W*33D	142.0W*86.0H*30.3D	
	Mounting Size (mm)	91.0W*73.0D	131.0W*78.0H	
	Net Weight (KG)	0.14	0.19	
Environment	Protection	IP65 (Front panel)		
	Temperature	Storage: -20℃~70℃； Working: -10℃~55℃		
	Humidity	10 ~ 90%RH (Non-condensing)		
	Vibration Resistance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)		
CE Certification		CE Marked		
Programming Software		PI Studio		
Remote Control		N/A		

PI3000ie SPECIFICATIONS

Basic HMI

Model	PI3070ie	PI3102ie

Item		Specifications	
CPU		Cortex A35 1.2GHz	
Touch Screen		Resistive	
Display	Screen Size	7 Inch	10.2 Inch
	Resolution	800*480	1024*600
	Brightness	250 cd/m^2	350 cd/m^2
	Backlight Type	LED	
	Backlight Life Time	50,000 Hours	
	Colors	16,000k colors	
Storage	Flash	128MB	
	RAM	DDRII 64MB	
	SD Card	NA	
Ports	USB	USB Host: USB 2.0 x 1； USB Client: USB 2.0 x 1	
	Serial Port	Type 1: COM1(RS232), COM1(RS485)	
		Type 2: COM1(RS232), COM1(RS422)	
	Ethernet	N/A	
Permanent Calendar		Built-in	
Power	Power Supply	24V DC(12~28V DC)	
	Power Consumption	< 8W	< 10W
Dimension	Enclosure	Plastic+ABS（Polycarbonate）	
	Dimension(mm)	201.2W*147.2H*39.0D	272.0W*191.0H*41.5D
	Mounting Size (mm)	192.0W*138.0H	260.0W*179.0H
	Net Weight (KG)	0.52	1.02
Environment	Protection	IP65 (Front panel)	
	Temperature	Storage: -20℃~70℃； Working: -10℃~55℃	
	Humidity	10 ~ 90%RH(Non-condensing)	
	Vibration Resistance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)	
CE Certification		CE Marked	
Programming Software		PI Studio	
Remote Control		N/A	

PI3000i SPECIFICATIONS

Basic HMI



Model	PI3070i	PI3070i-2S	PI3070i-A	PI3070i-SL	Pi3070i-SL-N

Item		Specifications				
CPU		Cortex A7 528MHz				
Touch Screen		Resistive				
Display	Screen Size	7 Inch				
	Resolution	800*480				
	Brightness	250 cd/m²				
	Backlight Type	LED				
	Backlight Life Time	50,000 Hours				
	Colors	16,000k colors				
Storage	Flash	128MB				
	RAM	DDRIII 128MB				
	SD Card	NA	YES	YES	NA	NA
	RTC	YES				
I/O Ports	USB	USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1				
	Serial Port	RS232, RS422/RS485 (2 in 1)	COM1: RS232,RS422/RS485 COM2: RS232,RS485 COM3: RS485		RS232, RS422/RS485 (2 in 1)	
	Ethernet	N/A	YES	YES	N/A	YES
	CAN	N/A	N/A	YES	N/A	N/A
Permanent Calendar		Built-in				
Power	Power Supply	24V DC(12~28V DC)				
	Power	< 8W				
Dimension	Enclosure	Plastic+ABS (Polycarbonate)				
	Dimension(mm)	201.2W*147.2H*39.0D	200.0W*146.0H*36.5D		191.2W*137.2H*41.0D	
	Mounting Size	192.0W*138.0H	192.0W*138.0H		172.0W*111.0H	
	Net Weight (KG)	0.51	0.51		0.52	
Environment	Protection	IP65 (Front panel)				
	Temperature	Storage: -20℃~70℃; Working: -10℃~55℃				
	Humidity	10 ~ 85%RH(Non-condensing)				
	Vibration	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)				
CE Certification		CE Marked				
FCC Certification		FCC Class A				
Programming Software		PI Studio				
Remote Control		N/A				

PI3000i SPECIFICATIONS

Basic HMI

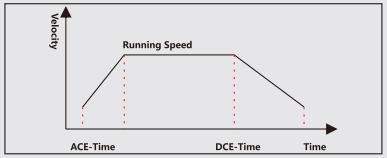

Model	PI3102i	PI3102i-2S	PI3102i-A

Item		Specification		
CPU		Cortex A7 528MHz		
Touch Screen		Resistive		
Display	Screen Size	10.2inch		
	Resolution	1024*600		
	Brightness	350 cd/㎡		
	Backlight Type	LED		
	Backlight Life	50,000 Hours		
	Colors	16,000k colors		
Storage	Flash	128MB		
	RAM	DDRIII 128MB		
	SD Card	YES		
	RTC	YES		
I/O Port	USB	USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1		
	Serial Port	RS232, RS422/RS485 (2 in 1)	COM1: RS232,RS422/RS485	COM1: RS232 ,RS422/RS485、CAN
			COM2: RS232,RS485	COM2: RS232,RS485
			COM3: RS485	COM3: RS485
	Ethernet	YES		
	CAN	N/A		YES
Permanent Calendar		Built-in		
Power	Power Supply	24V DC(12~28V DC)		
	Power Consumption	<10W		
Dimension	Enclosure	Plastic+ABS (Polycarbonate)		
	Dimension(mm)	272.0W * 191.0H * 41.5D	272.0W * 190.7H * 41.3D	
	Mounting Size(mm)	260.0W * 179.0H		
	Net Weight (KG)	1.00KG	1.2KG	
Environment	Protection	IP65 (Front panel)		
	Temperature	Storage :-20℃~70℃; Working :-10℃~55℃		
	Humidity	10 ~ 85%RH (Non-condensing)		
	Vibration	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)		
CE Certification		CE Marked		
FCC Certification		FCC Class A		
Programming Software		PI Studio		
Remote Control		N/A		

WECON PLC

High Speed Pulse Input/Output

- Supports pulse + direction mode input
- Supports high speed pulse output with acceleration and deceleration
- The acceleration and deceleration time are configurable

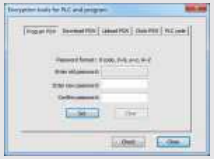


Modbus Listed Instruction

- RSLIST+RSLIST list
- Easier protocols communication

Program Encryption

- Subroutine encryption
- Ladder encryption
- PLC unit and PLC project encryption



PLC Guide Function

- PID operation guide setting
- All module guide setting
- All BD Board guide setting

LX-4AD Module Wizard Setting

PLC Applications

Automatic Plug Wiring Machine

Fast Scan

Program scanning speed: 0.2ms

Efficient Work

The line is 1.8m-2m, 1250 lines/hour
The line is 1.3 meters, 1300 lines/hour

Application Rail Transport, Packaging Machinery, Automated Production Lines, Grinding Machine, Industrial Robots, Spray and Dust Prevention, Elevator, Textile Machinery

Grinding Machine

Textile Machinery

Industrial Robots

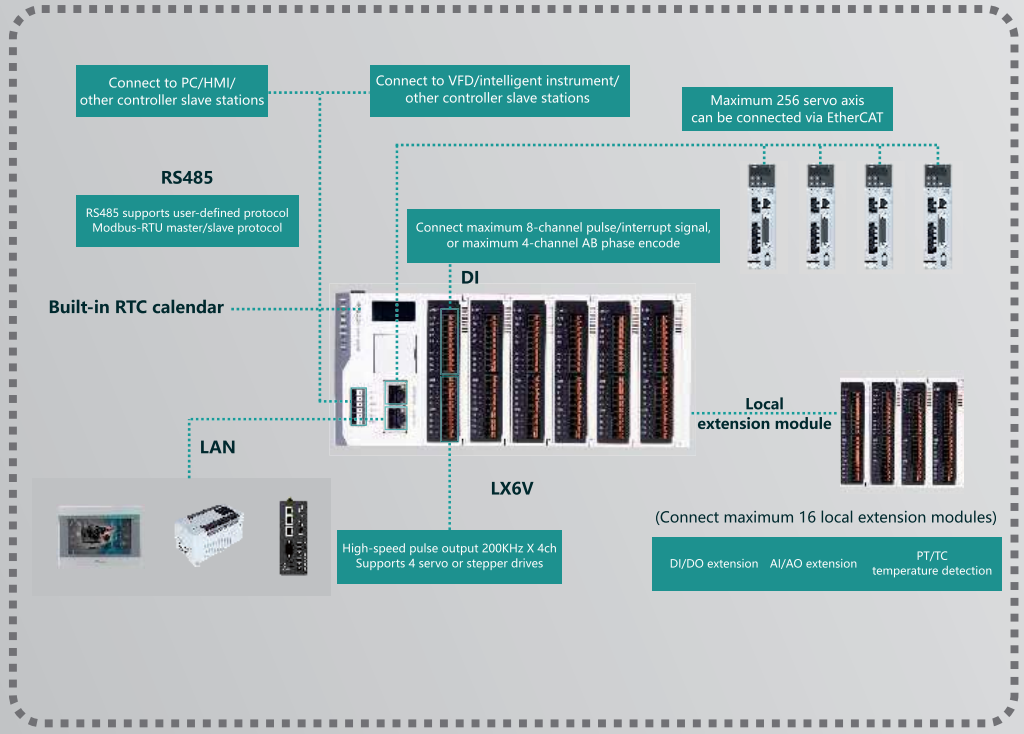
Elevator

LX6V series PLC

New Launched Modular EtherCAT PLC

Multi-port, fast communication, brand new product

- Supports EtherCAT and USB TYPE-C
- Supports 61131-3LD programming mode, free label protocol, faster and more efficient communication
- Nice appearance of PLC and module



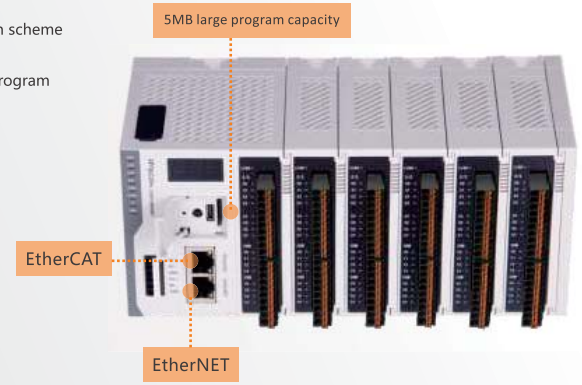
LX6V series PLC, small size and large capacity, a new evolution to bus PLC

Software upgrade

- Newly designed overall encryption scheme
- Newly designed free tag protocol
- Compatible with 5V 61131-3 LD program
- Custom FB/FC
- Global variable definition
- EtherCAT configuration
- EtherNET configuration

Capacity upgrade

- 5MB large program capacity
- 512KB latched capacity
- 100KB register capacity
- 5MB free tag capacity



PLC General

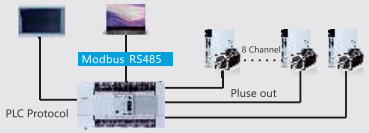
Item	LX6V-0808MT/1616MT
Running Mode	Cycle Scan/ Interrupt
Programming	Instruction table/ladder diagram/FB/FC
Total Instructions	Basic instruction: 29 / Application instruction: 170
Execute Time	Basic instruction 0.01-0.02μs
System Storage	5MB
Download/ Monitoring	Programming cable(serial port)
	ETHERNET
	USB TYPE-C
High Speed Pulse Output	Transistor type 4 channels/200KHz
High speed counter interrupt	100 channels
Timer Interrupt	100 channels, support 0.1ms interrupt
External input interrupt	X0-X7 supports both rising and falling edges
High Speed Input Single	4 channels 150 KHz
High Speed Input AB Phase	4 channels 100K Hz, supports 2 or 4 frequency multiplication
Power-down Save	Adjusted by software
Storage	EMMC
Filter	For all the input terminals
Serial Port	COM1（RS485）、COM2（RS485）
Temperature	Working Temperature： 0 ~ 55℃ / Storage Temperature： 0 ~ 70℃
Humidity	35~ 85%RH（Without condensation）
Shock Resistance	JISC0040 Standard
Influence Immunity	Meet the IEC61000-4-4 and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P, pulse width 10us, period 0.3s, edge time 5ns.
TF	Support
ETHERNET	1000M Ethernet
ETHERCAT	250μs 8-axis servo axis ~ 2ms 64-axis servo axis

LX5V Series PLC

LX5S Series PLC

8 Channel Pulse Input/Output

- 8 channels high speed counter ;
- 8 channels high speed pulse input, 150KHZ high-speed counter;
- 8 channels high speed pulse output, 200KHZ high-speed pulse output;
- Fast and accurate control.

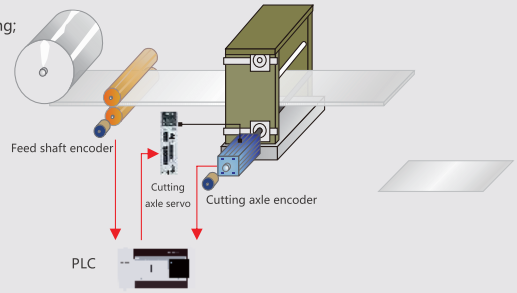


Easy Programming

- Friendly interface;
- Clear program classification;
- Detailed and clear parameter configuration.

Functions

- Support to modify frequency and position during pulse running;
- Support the highest baud rate: 921600;
- Support 100us high-speed timer interrupt;
- Support up to 100 high-speed counter interrupts;
- Support E-CAM;
- Support electronic gear;
- Support efficient and stable PID and CCPID self-tuning;
- Support LX 3V series modules;
- USB power supply;
- LX5V Software;
- 0.03us~0.08us for basic instruction execution.



E-cam -- Flying shear function

Fast

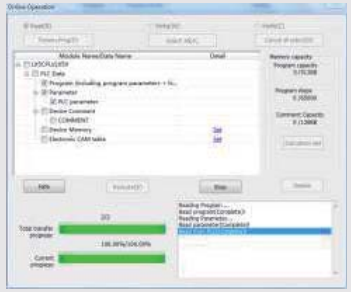
- 0.01us~0.03us for basic instruction execution ;
- Supports 8 channels external X interrupt;
- Support both rising edge and falling edge.

Functions

- Support to modify frequency and position during pulse running;
- Support the highest baud rate: 921600;
- Support 100us high-speed timer interrupt;
- Support up to 100 high-speed counter interrupt;
- Support E-CAM;
- Support electronic gear;
- Support efficient and stable PID and CCPID self-tuning;
- Support BD module of LX 3V series (3V Communication BD module not supported);
- USB power supply.

More Registers

- 512KB program capacity;
- 76KB latched capacity;
- 76KB register capacity;
- Added 128 timers of 0.1ms;
- Added 128 timers of 1ms.



Expansion Modules & BD Modules

LX3V Expansion Modules

Module		Specification	Module		Specification
I/O	LX3V-8EX	8 * Input	Analog	LX3V-4AD	4 * Analog Input
	LX3V-8EYR	8 * Relay Output		LX3V-4DA	4 * Analog Output
	LX3V-8EYT	8 * Transistor Output	Temperature	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
Weighting	LX3V-1WT	1 * Weighting (24-bit)	Weighting	LX3V-2WT	2 * Weighting (24-bit)
	LX3V-1WT-L	1 * Weighting (18-bit)		LX3V-2WT-L	2 * Weighting (18-bit)
High Speed Pulse Output	LX3V-4PGA	Supports 4*200KHZ high-speed pulse output. Supports T, S curve acceleration and deceleration. Supports two-speed positioning and interrupt one-speed positioning. Supports variable speed operation. Supports single-speed positioning.	High Speed Pulse Output	LX3V-4PGB	Supports 4*200KHZ high-speed pulse output. Supports T curve acceleration and deceleration. Supports single-speed positioning.
Remote	LCM-16EX	16 * Input, supports RS485 Modbus communication	Remote	LCM-2WT	2 * weighing expansion module, 24-bit resolution, supports RS485 Modbus communication.
	LCM-16EYR	16 * Relay Output, supports RS485 Modbus communication		LCM-4TC	4 * thermocouple Input, supports RS485 Modbus communication.

LX3V SERIES BD Modules

BD Board	Function	BD Board	Function
LX3V-2ADI2DAI-BD	2 * Analog Input/ Analog Output (4~20mA)	LX3V-2PT-BD	2 * Thermal Resistance Input
LX3V-2TC2DAI-BD	2 * Thermocouple Input ; 2 * Analog Output (4~20mA)	LX3V-2PT2ADV-BD	2 * Thermal Resistance Input ; 2 * Analog Voltage input(-10V-10V)
LX3V-2PT2DAI-BD	2 * Thermal Resistance Input ; 2 * Analog Output (4~20mA)	LX3V-2PT2DAV-BD	2 * Thermal Resistance Input ; 2 * Analog Voltage Output(-10V-10V)
LX3V-2TC-BD	2 * Thermocouple Input	LX3V-2ADV2DAV-BD	2 * Analog Input/ Output (-10V~10V)
LX3V-4ADI-BD	4 * Analog Input (4~20mA)	LX3V-2RS485-BD	2 * RS485 Communication
LX3V-4ADV-BD	4* Analog Input (-10V~10V)	LX3VP-ETH-BD	1 * Ethernet Communication
LX3V-2ADV-BD	2*Analog Voltage Input(-10V-10V)	LX3V-2DAI-BD	2*Analog Current Output(4-20mA)
LX3V-2ADI-BD	2*Analog Current Input(4-20mA)	LX3V-2DAV-BD	2*Analog Voltage Output(-10V-10V)
LX3V-2PTS-BD	2* Thermal Resistance Input, Precision >0.1℃		

LX5V SERIES BD Modules

BD Board	Function	BD Board	Function
LX5V-8BYT-BD	8* DO Output (Transistor NPN output)	LX5V-2RS485-BD	2 * RS485 Communication
LX5V-8BX-BD	8* DI Input	LX5V-ETH-BD	1 * Ethernet Communication
LX5V-2ADV-BD	2*Analog Voltage Input (-10v-10v)	LX5V-4ADV-BD	4* Analog Input (-10V~10V)
LX5V-2ADI-BD	2*Analog Current Input (4-20mA)	LX5V-4ADI-BD	4 * Analog Input (4~20mA)
LX5V-2DAV-BD	2*Analog Voltage Output (-10v-10v)	LX5V-2ADV2DAV-BD	2 * Analog Input/ Output (-10V~10V)(-10V~10V)
LX5V-2DAI-BD	2*Analog Current Output (4-20mA)	LX5V-2ADI2DAI	2 * Analo g Input/ Analog Output (4~20mA)
LX5V-2PT-BD	2 * Thermal Resistance Input, Precision =0.2~0.3℃	LX5V-2PT2ADV-BD	2 * Thermal Resistance Inpu t ; 2 * Analog Voltage input(-10v-10v)
LX5V-2PTS-BD	2* Thermal Resistance Input, Precision =0.1℃	LX5V-2PT2DAI-BD	2 * Thermal Resistance Inpu t ; 2 * Analog Output (4~20mA)
LX5V-2TC-BD	2 * Thermocouple Input(K Type, J Type)	LX5V-2PT2DAV-BD	2 * Thermal Resistance Inpu t ; 2 * Analog Voltage Output(-10v-10v) (-10V-10V)
LX5V-2TC2DAI-BD	2 * Thermocouple Input(K Type, J Type) ; 2 * Analog Output (4~20mA)		

LX5V & LX5S PLC Specifications

LX5V PLC Model

LX5V Model	I/O	Output Type	Dimension (mm)	Pulse Counter	E-CAM	Pulse Output	RS485	BD Board	Module	Power Supply	Ethernet
LX5V-1412MT-A(D/AN/DN)	14/12	Transistor	137x107x87	4	YES	4	2	1	YES	AC(DC)	Optional
LX5V-1616MT-A(D/AN/DN)	16/16	Transistor	175x107x87	8	YES	8	2	2	YES	AC(DC)	Optional
LX5V-2416MT-A(D/AN/DN)	24/16	Transistor	175x107x87	8	YES	8	2	2	YES	AC(DC)	Optional
LX5V-2424MT-A(D/AN/DN)	24/24	Transistor	220x107x87	8	YES	8	2	2	YES	AC(DC)	Optional
LX5V-3624MT-A(D/AN/DN)	36/24	Transistor	220x107x87	8	YES	8	2	2	YES	AC(DC)	Optional

LX5S PLC Model

LX5S Model	I/O	Output Type	Dimension (mm)	Pulse Counter	E-CAM	Pulse Output	RS485	BD Board	Module	Power Supply	Ethernet
LX5S-0806MT-A(D)	08/06	Transistor	75×107×87	2	YES	2	1	1	N/A	AC(DC)	N/A
LX5S-0806MR-A(D)	08/06	Relay	75×107×87	2	N/A	0	1	1	N/A	AC(DC)	N/A
LX5S-0806MR2H-A(D)	08/06	Mix	75×107×87	2	YES	2	1	1	N/A	AC(DC)	N/A
LX5S-1208MT-A(D)	12/08	Transistor	75×107×87	2	YES	2	1	1	N/A	AC(DC)	N/A
LX5S-1208MR-A(D)	12/08	Relay	75×107×87	2	N/A	0	1	1	N/A	AC(DC)	N/A
LX5S-1208MR2H-A(D)	12/08	Mix	75×107×87	2	YES	2	1	1	N/A	AC(DC)	N/A
LX5S-1412MT-A(D/AN/DN)	14/12	Transistor	137×107×87	2	YES	2	2	1	YES	AC(DC)	Optional
LX5S-1412MR-A(D/AN/DN)	14/12	Relay	137×107×87	2	N/A	0	2	1	YES	AC(DC)	Optional
LX5S-1412MR2H-A(D/AN/DN)	14/12	Mix	137×107×87	2	YES	2	2	1	YES	AC(DC)	Optional
LX5S-1616MT-A(D/AN/DN)	16/16	Transistor	175×107×87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-1616MR-A(D/AN/DN)	16/16	Relay	175×107×87	6	N/A	0	2	2	YES	AC(DC)	Optional
LX5S-1616MR2H-A(D/AN/DN)	16/16	Mix	175×107×87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-1616MT4H-A(D/AN/DN)	16/16	Transistor	175×107×87	6	YES	4	2	2	YES	AC(DC)	Optional
LX5S-2416MT-A(D/AN/DN)	24/16	Transistor	175×107×87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-2416MR-A(D/AN/DN)	24/16	Relay	175×107×87	6	N/A	0	2	2	YES	AC(DC)	Optional
LX5S-2416MR2H-A(D/AN/DN)	24/16	Mix	175×107×87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-2416MT4H-A(D/AN/DN)	24/16	Transistor	175×107×87	6	YES	4	2	2	YES	AC(DC)	Optional
LX5S-2424MT-A(D/AN/DN)	24/24	Transistor	220×107×87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-2424MR-A(D/AN/DN)	24/24	Relay	220×107×87	6	N/A	0	2	2	YES	AC(DC)	Optional
LX5S-2424MR2H-A(D/AN/DN)	24/24	Mix	220×107×87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-2424MT4H-A(D/AN/DN)	24/24	Transistor	220×107×87	6	YES	4	2	2	YES	AC(DC)	Optional
LX5S-3624MT-A(D/AN/DN)	36/24	Transistor	220×107×87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-3624MR-A(D/AN/DN)	36/24	Relay	220×107×87	6	N/A	0	2	2	YES	AC(DC)	Optional
LX5S-3624MR2H-A(D/AN/DN)	36/24	Mix	220×107×87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-3624MT4H-A(D/AN/DN)	36/24	Transistor	220×107×87	6	YES	4	2	2	YES	AC(DC)	Optional

LX3V Series PLC Specifications

LX3V PLC Model

LX3V Model	I/O	Output Type	Dimension (mm)	Pulse Counter	Pulse Output	RS485	BD Board	Module	Power Supply
LX3V-0806MR-A1 (D1)	08/06	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-0806MT-A1 (D1)	08/06	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-0806MR-A2 (D2)	08/06	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-0806MT-A2 (D2)	08/06	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR-A1 (D1)	12/08	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-1208MT-A1 (D1)	12/08	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR-A2 (D2)	12/08	Relay	75x107x87	2	0	1	1	N/A	AC (DC)
LX3V-1208MT-A2 (D2)	12/08	Transistor	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1208MR2H--A2 (D2)	12/08	Mix	75x107x87	2	2	1	1	N/A	AC (DC)
LX3V-1412MR-A (D)	14/12	Relay	137x107x87	2	0	2	1	YES	AC (DC)
LX3V-1412MT-A (D)	14/12	Transistor	137x107x87	2	2	2	1	YES	AC (DC)
LX3V-1412MT4H-A (D)	14/12	Transistor	137x107x87	2	4	2	1	YES	AC (DC)
LX3V-1412MR2H-A (D)	14/12	Mix	137x107x87	2	2	2	1	YES	AC (DC)
LX3V-1616MR-A (D)	16 / 16	Relay	175x107x87	2	0	2	2	YES	AC (DC)
LX3V-1616MT-A (D)	16 / 16	Transistor	175x107x87	2	2	2	2	YES	AC (DC)
LX3V-1616MT4H-A (D)	16 / 16	Transistor	175x107x87	2	4	2	2	YES	AC (DC)
LX3V-1616MR2H-A (D)	16 / 16	Mix	175x107x87	2	2	2	2	YES	AC (DC)
LX3V-2416MR-A (D)	24 / 16	Relay	175x107x87	2	0	2	2	YES	AC (DC)
LX3V-2416MT-A (D)	24 / 16	Transistor	175x107x87	2	2	2	2	YES	AC (DC)
LX3V-2416MT4H-A (D)	24 / 16	Transistor	175x107x87	2	4	2	2	YES	AC (DC)
LX3V-2416MR2H-A (D)	24 / 16	Mix	175x107x87	2	2	2	2	YES	AC (DC)
LX3V-2424MR-A (D)	24/ 24	Relay	220x107x87	2	0	2	2	YES	AC (DC)
LX3V-2424MT-A (D)	24 / 24	Transistor	220x107x87	2	2	2	2	YES	AC (DC)
LX3V-2424MT4H-A (D)	24 / 24	Transistor	220x107x87	2	4	2	2	YES	AC (DC)
LX3V-2424MR2H-A (D)	24 / 24	Mix	220x107x87	2	2	2	2	YES	AC (DC)
LX3V-3624MR-A (D)	36 / 24	Relay	220x107x87	2	0	2	2	YES	AC (DC)
LX3V-3624MT-A (D)	36 / 24	Transistor	220x107x87	2	2	2	2	YES	AC (DC)
LX3V-3624MT4H-A (D)	36 / 24	Transistor	220x107x87	2	4	2	2	YES	AC (DC)
LX3V-3624MR2H-A (D)	36 / 24	Mix	220x107x87	2	2	2	2	YES	AC (DC)

LX3VP Series PLC Specifications

LX3VP PLC Model

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	137x107x87	2	0	2	N/A	1	YES	AC (DC)
LX3VP-1212MT-A(D)	12 / 12	Transistor	137x107x87	2	2	2	N/A	1	YES	AC (DC)
LX3VP-1212MT4H-A(D)	12 / 12	Transistor	137x107x87	2	4	2	N/A	1	YES	AC (DC)
LX3VP-1212MR2H-A(D)	12 / 12	Mix	137x107x87	2	2	2	N/A	1	YES	AC (DC)
LX3VP-1412MR-A(D)	14 / 12	Relay	137x107x87	2	0	2	N/A	1	YES	AC (DC)
LX3VP-1412MT-A(D)	14 / 12	Transistor	137x107x87	2	2	2	N/A	1	YES	AC (DC)
LX3VP-1412MT4H-A(D)	14 / 12	Transistor	137x107x87	2	4	2	N/A	1	YES	AC (DC)
LX3VP-1412MR2H-A(D)	14 / 12	Mix	137x107x87	2	2	2	N/A	1	YES	AC (DC)
LX3VP-1616MR-A(D)	16 / 16	Relay	175x107x87	2	0	2	N/A	2	YES	AC (DC)
LX3VP-1616MT-A(D)	16 / 16	Transistor	175x107x87	2	2	2	N/A	2	YES	AC (DC)
LX3VP-1616MT4H-A(D)	16 / 16	Transistor	175x107x87	2	4	2	N/A	2	YES	AC (DC)
LX3VP-1616MR2H-A(D)	16 / 16	Mix	175x107x87	2	2	2	N/A	2	YES	AC (DC)
LX3VP-2416MR-A(D)	24 / 16	Relay	175x107x87	2	0	2	Optional	2	YES	AC (DC)
LX3VP-2416MT-A(D)	24 / 16	Transistor	175x107x87	2	2	2	Optional	2	YES	AC (DC)
LX3VP-2416MT4H-A(D)	24 / 16	Transistor	175x107x87	2	4	2	Optional	2	YES	AC (DC)
LX3VP-2416MR2H-A(D)	24 / 16	Mix	175x107x87	2	2	2	Optional	2	YES	AC (DC)
LX3VP-2424MR-A(D)	24 / 24	Relay	220x107x87	2	0	2	N/A	2	YES	AC (DC)
LX3VP-2424MT-A(D)	24 / 24	Transistor	220x107x87	2	2	2	N/A	2	YES	AC (DC)
LX3VP-2424MT4H-A(D)	24 / 24	Transistor	220x107x87	2	4	2	N/A	2	YES	AC (DC)
LX3VP-2424MR2H-A(D)	24 / 24	Mix	220x107x87	2	2	2	N/A	2	YES	AC (DC)
LX3VP-3624MR-A(D)	36 / 24	Relay	220x107x87	2	0	2	N/A	2	YES	AC (DC)
LX3VP-3624MT-A(D)	36 / 24	Transistor	220x107x87	2	2	2	N/A	2	YES	AC (DC)
LX3VP-3624MT4H-A(D)	36 / 24	Transistor	220x107x87	2	4	2	N/A	2	YES	AC (DC)
LX3VP-3624MR2H-A(D)	36 / 24	Mix	220x107x87	2	2	2	N/A	2	YES	AC (DC)

LX5V General Specifications

LX5V PLC Model

Item	LX5V-1212MT/1412MT	LX5V-1616MT/2416MT	LX5V-2424MT/3624MT
Running Mode	Round Scan/ Interrupt		
Programming	Instruction List/ Ladder		
Total Instructions	Basic Instructions: 29 / Application Instruction: 170		
Execute time	Basic Instructions: 0.01-0.03μs		
System Flash	512KB/384KB(Ethernet Model)		
Download/ Monitoring	Serial Programming Cable (Serial Port) / Micro USB / Ethernet		
Ethernet	100M Ethernet (Optional)		
High Speed Pulse Output	Transistor: 4 channels / 200KHz	Transistor: 8 channels / 200KHz	Transistor: 8 channels / 200KHz
High speed counter interrupt	100 channels		
Timer Interrupt	100 Channels, Interruption time (min): 0.1ms		
External input interrupt	X0-X7 supports both rising and falling edges		
High Speed Input Single	4 Channels 150KHz	8 Channels 150KHz	8 Channels 150KHz
High Speed Input AB Phase	4 channel 100KHz, frequency modes:1/2/4 times	8 channel 100KHz, frequency modes:1/2/4 times	8 channel 100KHz, frequency modes:1/2/4 times
Power-down save	Adjusted by software		
Filter	For all X input terminals		
Serial Port	COM1：RS422 / RS485 COM2：RS485		
Temperature	Working Temperature： 0 ~ 55℃ / Storage Temperature： 0 ~ 70℃		
Humidity	35~ 85%RH（No condensation）		
Shock Resistance	JISC0040 Standard		
Influence Immunity	Meet the IEC61000-4-4 and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P , pulse width 10us, period 0.3 s, edge time 5ns , duration 1min.		
USB Supply	Use for upgrading firmware, downloading ladder diagram	N/A	Use for upgrading firmware, downloading ladder diagram

LX5S General Specifications

LX5S PLC Model

Item	LX5S-0806MT/MR LX5S-1208MT/MR	LX5S-1212MT/MR LX5S-1412MT/MR	LX5S-1616MT/MR LX5S-2416MT/MR	LX5S-2424MT/MR LX5S-3624MT/MR
Running Mode	Round Scan/ Interrupt / Event			
Programming	Instruction table/ladder diagram			
Total Instructions	Basic instruction: 29 / Application instruction: 170			
Execute time	Basic instruction 0.03-0.008μs			
System EMMC	512KB			
Download/ Monitoring	Programming cable (serial type) / Micro USB / Ethernet			
Ethernet	N/A	100M Ethernet (Optional)		
High Speed Pulse Output	Transistor type; 2 channels / 200KHz			
High speed counter interrupt	100 channel			
Timer Interrupt	100 channels, support 0.1ms interrupt			
External input interrupt	X0-X5 supports both rising and falling edges			
High Speed Input Single Phase	2 channel 150KHz; 4 channel 10KHz	2 channel 150KHz; 4 channel 10KHz	6 channel 150KHz	6 channel 150KHz
High Speed Input AB Phase	1 channel 100K Hz, supports 2 or 4 frequency multiplication 2 channels 10K Hz, supports 2 or 4 frequency multiplication	1 channel 100KHz, supports 2 or 4 frequency multiplication 2 channels 10K Hz, supports 2 or 4 frequency	3 channels 100KHz, supports 2 or 4 frequency multiplication	3 channels 100KHz, supports 2 or 4 frequency multiplication
Power-down save	Adjusted by software			
Filter	For all X input terminals			
Serial Port	COM1 (RS422),COM2 (RS485)	COM1（RS422 / RS485）,COM2（RS485）		
Temperature	Working Temperature： 0 ~ 55℃ / Storage Temperature： 0 ~ 70℃			
Humidity	35~ 85%RH（Without condensation）			
Shock Resistance	JISC0040 Standard			
Influence Immunity	Meet the IEC61000-4-4 and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P , pulse width 10us, period 0.3 s, edge time 5ns , duration 1min.			
USB Supply	YES			

PLC General Specifications

	LX3V Series	LX3VP Series
Running Mode	Round Scan/ Interrupt	
Programming	Instruction List/Ladder	
Total Instructions	Basic Instructions:27 / Application Instruction: 138	Application Instruction:140
Execute time	Basic Instructions: 0.06us / Application Instruction: 1~10us	
System Flash	16K	64K
Download/ Monitoring	Serial Programming Cable (Serial Port) / Micro USB	
High Speed Pulse Output	Transistor: 2 channels (4 channel optional) / Relay N/A (2 channel optional)	
External Interrupt	6 Channels	
Timer Interrupt	3 Channels	
High Speed Input Single Phase	2 channels 200KHz, 4 channels 5KHz	
High Speed Input AB Phase	1 channel 100KHz, frequency modes:1/2/4 times; 1 channel 5KHz, frequency modes:1/2/4 times	
Holding Addresses	Adjustable	
Filter	For all X input terminals	
Serial Port	COM1: RS422 or RS485 COM2: RS485	
Temperature	Working Temperature : 0 ~ 55℃ / Storage Temperature : -20 ~ 70℃	
Humidity	5~ 85%RH (Without condensation)	
Shock Resistance	JISC0040 Standard	
Influence Immunity	Meet the IEC61000-4-4 and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P , pulse width 10us, period 0.3 s, edge time 5ns , duration 1min.	

Output

Item		Relay Output	Transistor Output
Output Mode		--	NPN
Input Power Supply		DC 24V	DC 24V
Output Circuit		<AC 250V or <DC 30V	DC 5~30V
COM Port Current		--	<0.1mA (DC30V)
Insulation		Mechanical insolation	Optical Coupler insolation
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 24V7.2WHSPO point
	General	100W	0.9W/DC 24V
ResponseTime	ON	<10ms	<0.2ms (High-speed output terminal:<5us)
	OFF		

PLC General Specifications

AC Power Supply

Item	LX3V/LX3VP(≤26I/Os)	LX3V/LX3VP(>26I/Os)
Voltage	AC 85~265V 50 ~ 60Hz	
Power OutageTime	10ms	
Rush Current	<15A5ms / AC 100V; <30A5ms / AC 200V	
Power Fuse	250V 3.15A	250V 3.15A
Power Consumption	<35W	<60W
Power Output	DC 24V 850mA	DC 24V 700mA

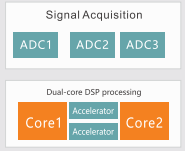
DC Power Supply

Item	LX3V/LX3VP PLC
Power Supply	DC 24V±10%
Power Outage Time	10ms
Power Fuse	250V 3.15A
Rush Current	<15A 1ms/DC 24V
Power Consumption	<30w(Not include the external power supply for modules)

WECON Servo Drives

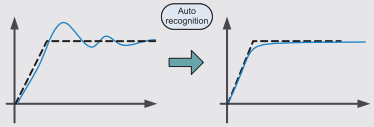
High Response

High performance CPU
Faster data reading
Faster calculation and sampl ing speed



Easy to Debug

Automatic load parameter tuning function

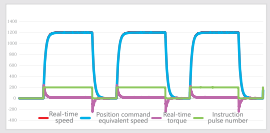


Strong Protection

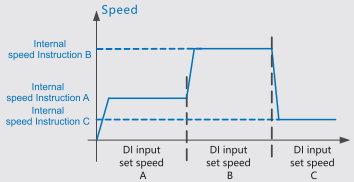
Coating protection,
anti-corrosion.
Rich protection functions,
more stable.

Personalise

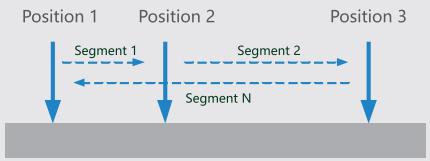
Virtual DI/DO function,
four-channel real-time
oscilloscope.



Support internal multi-speed instruction

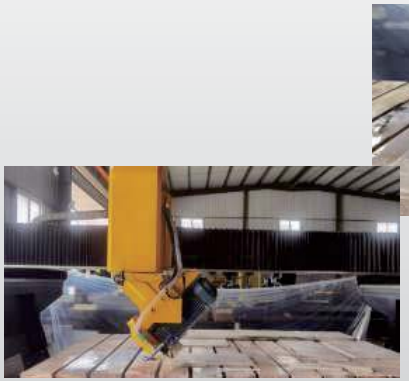


Support internal multi-segment position instruction



Servo Applications

Infrared Stone Cutting Machine



Smart Control

Real-time speed adjustion during cutting

Multiple Functions

Various functions such as board cutting, multi-face chamfer, special shape, profiling, etc.

Application

Automatic Plug Wiring Machine, Packaging Machinery, Cutting Machinery, Winding Machinery, Face Mask Machinery, Rubber Machinery, Automated Production Lines, Industrial Robots

Automatic Plug Wiring Machine

Industrial Robots

Automated Production Lines

Textile Machinery

SERVO Naming Rules

Drive Naming Rules

VD2 021 S E1 G

Series	Maximum Current	Voltage	Encoder type	Function
VD2	010：10A	S：220V	E1：Incremental Encoder	P：Basic pulse control
VD2F	014：14A	T：380V	A1：Absolute Encoder	G：Universal (Pos,Torque, Speed)
	016：16A			
	019：19A			
	021：21A			
	025：25A			
	030：30A			

Motor Naming Rules

WD 80 M 075 30 S E1 F

Series	Flange Size	Motor Inertia	Rated Power	Rated Speed	Voltage	Encoder Type	Motor Structure
WD:5-pole	40mm	L：Low inertia	010：100W	15：1500rpm	S：220V	E1: 2500 Liner incremental optical encode	F：Oil sealed
WE:4-pole	60mm	M：Medium inertia	020：200W	20：2000rpm	T：380V	A1: 17 bit single Magnetic encoder	G：Oil sealed+Brake
	80mm	H：High inertia	040：400W	25：2500rpm		C1:17bit Multi Magnetic encoder	B：Oil sealed
	110mm		073：730W	30：3000rpm		D2:23bit Multi Optical encoder	C：Oil sealed+Brake
	130mm		075：750W				
			100：1KW				
			110：1.1KW				
			120：1.2KW				
			150：1.5KW				
			180：1.8KW				
			200：2.0KW				
			230：2.3KW				
			260：2.6KW				
			380：3.8KW				

VD2/VD2F Servo Drive & Motor Specifications

VD2/VD2F Drives & Motors

▲：A1-Absolute value; E1-Incremental.
P：Pulse control; G：General（Pos,Torque,speed）.

Series	Type	Drive Model	Max Current(A)	Power Supply	Drive Model	Max Current(A)	Power Supply
VD2	A	VD2-010SA1G	10	220V	VD2-014SA1G	14	220V
	B	VD2-016S▲G	16	220V	VD2-019S▲G	19	220V
		VD2-021S▲G	21	220V	VD2-025SA1G	25	220V
		VD2-030SA1G	30	220V	VD2-021TA1G	21	380V
VD2F	F	VD2F-010SA1P	10	220V	VD2F-014SA1P	14	220V

Note:
1. VD2-XXXTA1G is not recommended to work in industrial three-phase voltages of 440V and above.
2. For 380V operating voltage, the fluctuation range is 15%
3. For 400V operating voltage, the fluctuation range is 10%

Series	MotorModel	Power Supply	Flange	Rated Power (kW)	Rated Torque (N.m)	Rated Speed (rpm)	Rated Current(A)	Max Torque (N.m)
VD SERIES	WD40M-01030S○☆	220V	40	0.1	0.32	3000	1	0.95
	WD60M-02030S○☆		60	0.2	0.64	3000	1.7	1.92
	WD60M-04030S○☆			0.4	1.27	3000	2.5	3.81
	WD80M-07530S○☆		80	0.75	2.39	3000	4.4	7.17
VE SERIES	WE60M-04030S○☆		60	0.4	1.27	3000	2.6	3.8
	WE80M-07320S○☆		80	0.73	3.5	2000	3	10.5
	WE80M-07530S○☆			0.75	2.39	3000	3	7.1
	WE80M-10025S○☆			1	4	2500	4.4	12
	WE80M-11030S○☆			1.1	3.5	3000	4	10.5
	WE80M-12030S○☆			1.2	4	3000	4.5	12
	WE110M-06030S○☆		110	0.6	2	3000	2.5	6
	WE110M-08020S○☆			0.8	4	2000	3.5	12
	WE110M-12020S○☆			1.2	6	2000	4.5	12
	WE110M-15030S○☆			1.5	5	3000	6	15
	WE110M-18030S○☆			1.8	6	3000	6	18
	WE130M-10025S○☆		130	1	4	2500	4	12
	WE130M-10010S○☆			1	10	1000	4.5	20
	WE130M-13025S○☆			1.3	5	2500	5	15
	WE130M-15025S○☆			1.5	6	2500	6	18
	WE130M-15015S○☆			1.5	10	1500	6	25
	WE130M-20025S○☆			2	7.7	2500	7.5	22
	WE130M-23015S○☆			2.3	15	1500	9.5	30
	WE130M-26025S○☆			2.6	10	2500	10	25
	WE130M-38025S○☆			3.8	15	2500	13.5	30
	WE130M-20025T○☆	380V	130	2	7.7	2500	6	18
	WE130M-26025T○☆			2.6	10	2500	6	25
	WE130M-38025T○☆			3.8	15	2500	7.5	22
	WE130M-42020T○☆			4.2	20	2000	8.5	60
	WE130M-53030T○☆			5.3	17	3000	9.5	30
	WE180M-30015T○☆		180	3	19	1500	10	25
	WE180M-43015T○☆			4.3	27	1500	13.5	30
	WE180M-45020T○☆			4.5	21.5	2000	9.5	53
	WE180M-55015T○☆			5.5	35	1500	13.5	30

○：A1-17 bit single Magnetic encoder C1-17bit Multi Magnetic encoder; D2-23bit Multi Optical encoder;
☆：F-Oil sealed; G-Oil sealed & Brake.

(Remarks: Please contact us for motor confirmation before purchase)

VD2 Drive Specifications

Universal Type

Model	VD2(A)	VD2(B)

Item			VD2 Series	
Basic Specifications	Power Supply		220V	220V/380V
	Control Method		IGBT PWM controlled sine wave current drive	
	Encoder		2500ppr incremental encoder; 17 bit, 23 bit absolute encoder	
	Input Signal		8*DI	
	Output Signal		4*DO	
	Analog Signal Input		2*AI input(-10v~10v)	
	Pulse Signal Input		Open collector or differential input	
	Pulse Feedback Output		A,B,Z differential output	
	Internal Instructions		Support 8 internal speed commands and internal multi-segment position commands	
	Communication/Debug		Support to communicate with modbus device and debug with SCTools at the same time. (SCTools can set&monitor servo parameters,monitor waveform,self-tuning parameter,etc.)	
	Braking Resistor		400W without built-in baking resistor; both support external braking resistor	
Function Setting	General Function	Self-tuning	SCTools supports self-turning function,and identifies load inertia identification and rigidity level, and other parameters.	
		Waveform Monitoring	View position, speed, torque and other curves on PC in real time	
		Waveform Storage	The original waveform data could be stored for up to 10s	
		Parameter Import / Export	Support batch parameter import and export; support PLC configurate servo parameters automatically (supported by some models)	
		Vibration Suppression	Suppress mechanical vibration by setting vibration suppression parameters	
		Protective Function	Overvoltage, undervoltage, overcurrent, overspeed, overload, overheating, encoder failure, excessive position deviation, torque limit, speed limit, etc	
		Brake	Support	
		Universal Control DI	Servo enable (SON), fault and warning clear (A-CLR), forward drive prohibition (POT), reverse drive prohibition (NOT), command reverse (C-SIGN), emergency stop (E-STOP), Gain switching (GAIN-SEL), Multi-speed command selection(INSPD1、INSPD2、INSPD3); Internal multi-position command selection and enable (POS1,POS2, POS3,POS4, POSEN)	
		Universal Control DO	Servo ready (RDY), fault signal (ALM), warning signal (WARN), rotation detection (TGON), zero speed signal (ZSP), torque limit (T-LIMIT), speed limit (V-LIMIT),servo on state output (SRV-ST), servo brake output (BRK-OFF)	
	Pulse Input	Pulse Frequency	Maximum 500khz	
		Pulse Type	Pulse + Direction, CCW/CW pulse, Quadraturel encoding	
		Pulse Filtering	First-order low-pass filter or smooth filter	
		Pulse Output	Differential Quadraturel encoding A, B, Z output; PPR is settable by p0-16 or P0-17~P0-20.	
	Speed Mode	Command Input	-10V~+10V analog input internal speed command (Maximum 8)	
		Zero Clamp	Motor speed could be clamped to zero via the setting of zero clamp function	
		Torque Limit	Support to set the torque limit	
	Torque Mode	Command Input	-10V~+10V analog input and Internal torque command	
		Torque Reaching	Torque reaching threshold and DO can be set flexibly	
		Speed Limit	The speed limit can be set flexibly	

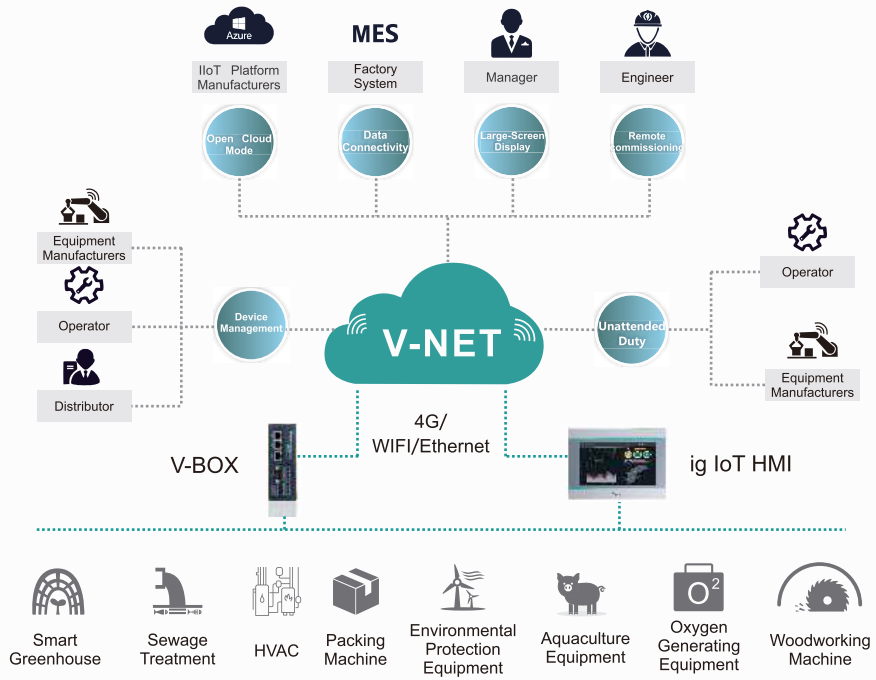
VD2F Drive Specifications

Universal Type

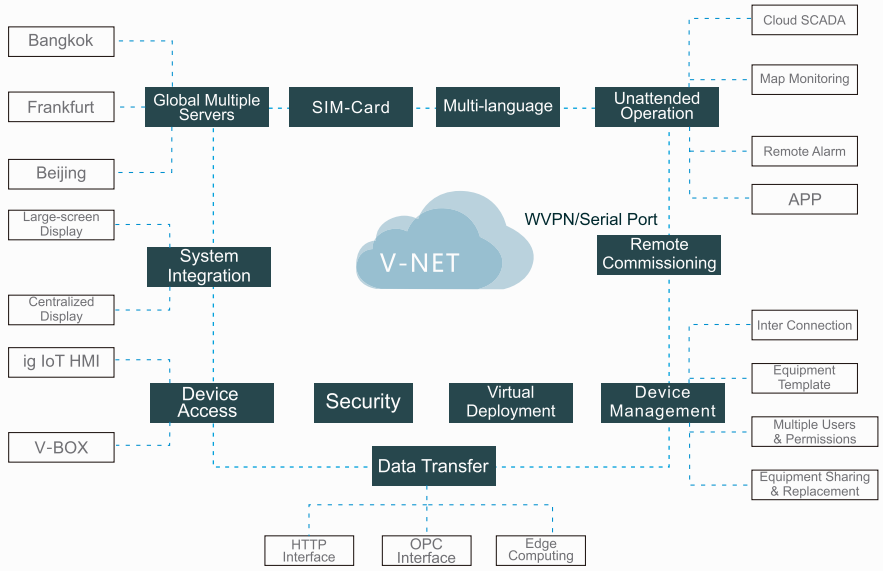
Model	VD2F

Item			VD2F Series
Basic Specifications	Power Supply		220V
	Control Method		IGBT PWM controlled sine wave current drive
	Encoder		17 bit, 23 bit absolute encoder
	Input Signal		4*DI
	Output Signal		4*DO
	Analog Signal Input		—
	Pulse Signal Input		Open collector or differential input
	Pulse Feedback Output		Z signal open collector output
	Internal Instructions		Support 8 internal speed commands and internal multi-segment position commands
	Communication / Debug		Support to communicate with modbus device or debug with SCTools
	Braking Resistor		750W built-in baking resistor; 400W without built-in baking resistor; both support external braking resistor
Function Setting	General Function	Self-tuning	SCTools supports self-turning function,and identifies load inertia identification and rigidity level, and other parameters.
		Waveform Monitoring	View position, speed, torque and other curves on PC in real time
		Waveform Storage	The original waveform data could be stored for up to 10s
		Parameter Import / Export	Support batch parameter import and export; support PLC configurate servo parameters automatically (supported by some models)
		Vibration Suppression	Suppress mechanical vibration by setting vibration suppression parameters
		Protective Function	Overvoltage, undervoltage, overcurrent, overspeed, overload, overheating, encoder failure, excessive position deviation, torque limit, speed limit, etc
		Brake	Support
		Universal Control DI	Servo enable (SON), fault and warning clear (A-CLR), forward drive prohibition (POT), reverse drive prohibition (NOT), command reverse (C-SIGN), emergency stop (E-STOP), Gain switching (GAIN-SEL), Multi-speed command selection(INSPD1、INSPD2、INSPD3); Internal multi-position command selection and enable (POS1,POS2, POS3,POS4, POSEN)
		Universal Control DO	Servo ready (RDY), fault signal (ALM), warning signal (WARN), rotation detection (TGON), zero speed signal (ZSP), torque limit (T-LIMIT), speed limit (V-LIMIT),servo on state output (SRV-ST), servo brake output (BRK-OFF) ; Z signal input
	Pulse Input	Pulse Frequency	Maximum 500khz	
		Pulse Type	Pulse + Direction, Orthogonal coding	
		Pulse Filtering	First-order low-pass filter or smooth filter	
		Pulse Output	—	
	Speed Mode	Command Input	Only internal speed command is supported (Maximum 8)	
		Zero Clamp	Motor speed could be clamped to zero via the setting of zero clamp function	
		Torque Limit	Support to set the torque limit	
	Torque Mode	Command Input	Only internal torque command is supported	
		Torque Reaching	Torque reaching threshold and DO can be set flexibly	
		Speed Limit	The speed limit can be set flexibly	

WECON V-NET&Gateway Architecture



WECON V-NET&Gateway Functions



Device Management

All in One

To locate the devices accurately through map index, category search, fuzzy search, etc.

One-key Configuration

To download and modify the configuration of the V-BOX of the same model by using the template function.

Role Management

Managers can assign V-NET permissions to users at the corresponding levels by establishing users at various levels (4 levels in total), no matter how many devices there are, they could be managed by one person.

Global Servers

Server Location	Providers	Country or Region
Beijing	HUAWEI CLOUD	China
Bangkok	HUAWEI CLOUD	Southeast Asia, East Asia and Oceania
Frankfurt	AWS by Amazon	Europe, America, Middle East and India

Multilingual

- Chinese & English for main interface;
- User-defined three kinds of languages supported in project of Cloud SCADA;
- Languages switchable.

WECON V-BOX

Standard with 3 Serial ports & 3 Ethernet (H Series),
Support RS485/RS422,Optional for WiFi, 4G, GPS

Built-in IOs

Built-in
2*DI & 2*DO relay
(H Series only)

Pass-through Function

Support WVPN Pass-through,
Serial Port Pass-through
to realize PLC remote debugging or download

Edge Computing

Simple logic control could
be realized
by built-in Lua Script.

OpenCloud Mode

V-BOX can be connected
to third-party platforms
through OpenCloud Mode.

Protocols

300+ protocols
of main brands PLC
with ethernet and serial ports

Installations

DIN rail & mounting
Hole installation

Quick Access

Connect to V-NET easily by plugging
in network cables or IoT SIM card
(China cloud only)

Indicators

V-NET Connection indicator
4G Signal Intensity indicator
PLC Communication Status indicator

WECON Application

Heating Detection System

Digital

Collect the analog signals of the temperature, pressure and flow rate of the outlet water of the heat exchanger, and use PID to control the valve diameter of the heat exchanger and the rotation speed of the circulating pump to achieve the purpose of automatic temperature adjustment.

Remote Access

Remotely set heating temperature, working period and working mode

Intelligence

Real-time display on the map of the primary and secondary pipe outlet and inlet water temperature, as well as equipment operating status, to achieve unattended operation.

V-NET Applications

Gas Pipelines, Machinery, Water Treatment, Energy Consumption Monitoring, Transportation, Smart Agriculture, Smart Public Toilets, Smart Aquaculture, Municipal/Construction Site Dust Prevention and Spray

Machinery

Gas steam boiler

Water Treatment

Transportation

V-BOX E Series Specifications

General			
Model	E-00		E-4G
CPU	ARM 9		
Storage – Flash	128MB		
Storage – RAM	DDRII 64MB		
Storage – SD Card	N/A		
I/O Ports – USB	OTG：USB HOST/USB DEVICE		
I/O Ports – Serial Ports	COM1：RS232，RS422/RS485(2 in 1)		
I/O Ports – Ethernet	1 Ethernet Port		
I/O Ports – WIFI Module	N/A		
I/O Ports – 4G Module	N/A		4G
Power – Power Supply	24V DC（12~28V DC）		
Power – Power Consumption	< 10W		
Dimension – Enclosure	Cold-rolled steel sheets		
Dimension – Dimension（W*H*D）	101.0mm*73.2mm*26.8mm		
Dimension – Wall Hanging Dimension	110.0mm*15.6mm		
Dimension – Weight（KG）	0.26		
Environment – Vibration Resistance	IEC61131-2 Standard		
Environment – Storage Temperature	-20℃~70℃		
Environment – Working Temperature	-10℃~60℃		
Environment – Relative Humidity	10~85%RH（Non-condensing）		
CE Certification	CE Marked		
FCC Certification	FCC Class A Marked		
Real-time Monitoring Points	200		250
Alarm Monitoring Points	50		100
History Monitoring Points	20		50
History Storage/Storage capacity	60 Days/1 Million		90 Days/1 Million
Normal Pass-through	YES		
WVPN Pass-through	N/A		
Edge Computing	N/A		YES
API Interface	YES		
Remote Update	YES		
Configuration download / upload	YES		
Off-line Transmission	YES		
GPS	N/A		LBS

E-4G model frequency code

LTE FDD	LTE TDD	WCDMA	GSM
B1/B3/B5/B8	B34/B38/B39/B40/B41	B1/B5/B8	900/1800MHz

Remark: Please contact us for confirmation about 4G Compatibility before purchase.

V-BOX H Series Specifications

General					
Model	H-00	H-WF	H-4G/H-SG		H-AG
CPU	Cortex A7				
Storage – Flash	128MB				
Storage – RAM	DDRIII 128MB				
I/O Ports – USB	HOST/DEVICE: USB OTG Switch				
I/O Ports – Serial Ports	COM1: RS232, RS422/RS485 (2 in 1)				
I/O Ports – Serial Ports	RS485(2 in 1)【COM2：RS485，COM3：RS485】				
I/O Ports – Ethernet	3 Ethernet Ports				
I/O Ports – WIFI Module	N/A	YES	N/A		N/A
I/O Ports – 4G Module	N/A	N/A	4G		4G (Global)
I/O Ports – I/O	2 inputs with optocoupler isolation; 2 relay outputs				
Power – Power Supply	24V DC（12~28V DC）				
Power – Power Consumption	<10W				
Dimension – Enclosure	PC+ABS（				
Dimension – Dimension（W*H*D）	131.0mm*100.5mm*46.0mm				
Dimension – Weight（KG）	0.3				
Environment – Vibration Resistance	IEC61131-2 Standard				
Environment – Storage Temperature	-20℃~70℃				
Environment – Working Temperature	-10℃~60℃				
Environment – Relative Humidity	10~85%RH（Non-condensing）				
CE Certification	CE Marked				
FCC Certification	FCC Class A Marked				
Real-time Monitoring Points	300	300	500		600
Alarm Monitoring Points	200	200	300		300
History Monitoring Points	50	50	100		100
History Storage/Storage capacity	90 Days/1 Million		180 Days/1 Million		
Normal Pass-through	YES				
WVPN Pass-through	YES	YES	YES		YES
Edge Computing	YES				
API Interface	YES				
Remote Update	YES				
Configuration download / upload	YES				
Off-line Transmission	YES				
GPS	N/A		LBS/GPS		LBS

H-4G model frequency code

LTE FDD	LTE TDD	TD-SCDMA	WCDMA	CDMA	GSM
B1/B3/B5/B8	B34/B38/B39/B40/B41	B34/B39	B1/B8	BC0	900/1800MHz

H-AG model frequency code

LTE FDD	LTE TDD	UMTS	GSM
B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28	B38/B39/B40/B41	B1/B2/B4/B5/B6/B8/B19	B2/B3/B5/B8

Remark: Please contact us for confirmation about 4G Compatibility before purchase.

VB Series AC Drive

Power Range: Single Phase Input & Three Phase Output(220V): 0.75~2.2kW;
Three Phase Input & Three Phase Output (380V): 0.75~400kW

The VB series is a new high-performance vector general-purpose VFD that further enhances stability and reliability through technical upgrades and product optimization, and it is suitable for complex drives applications.

- SVC/VF Control
- 0-1000Hz
- 6 channels DI, 2 channels AI, 2 channels Relay
- High reliability design

■ Technical specification sheet

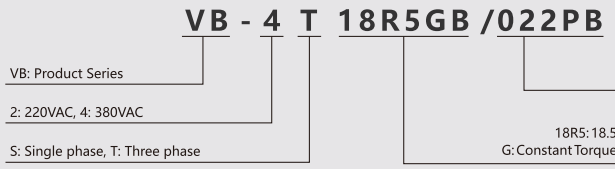
Control characteristic	Control Mode	V/F Control; Sensorless Vector Control (SVC); Torque Control
	Starting Torque	G Type: 0.5Hz/150 % (SVC); P Type: 0.5Hz/100%
	Speed Adjustment Range	1 : 100 (SVC)
	Speed Holding Precision	± 0.5 % (SVC)
	Overload Capability	G Type: 150 % rated current for 60s ; 180 % rated current for 1s P Type: 120 % rated current for 60s ; 150 % rated current for 1s
Input/output	Input Voltage	220V/380V±15%
	Input Frequency	50/60Hz, fluctuation range: ±5%
	Output Voltage	0-rated input voltage
	Output Frequency	SVC: 0~320Hz, V/F: 0~1000Hz
Input/output Terminals	Analog Input	2 channels
	Digital Input	6 channels
	Analog Output	2 channels
	Digital Output	1 channels
	Relay Output	2 channels
	RS485 Communication Terminal	1 channels
	Power Supply	2 channels, 1 channels 10V,1 channels 24V
Application environment	Attitude	Lower than 1000m, service is derated capability above 1000m, derate 1% capacity every 100m increased in height
	Environment Temperature	-10℃ ~ + 40℃ (service is derated capability for 40℃ ~ 50℃)
	Humidity	≤95%RH, no water condensation
	Vibration	< 5.9m/s2 (0.6g)
	Storage Temperature	- 40℃ ~ + 60℃

■ Application

Lifting machinery, tension machinery, cutting and forging machinery, large inertia braking, metal processing, woodworking, rubber and plastic machinery, textile machinery, etc.




■ Model number description

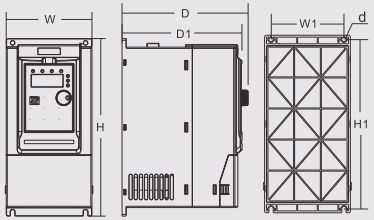


■ Specification and selection guide

Voltage grade	Power kW	Power HP	Rated intput current(A)	Rated output current(A)	Series No.	2:220V 4:380V	S:single phase T: three-phase	Adaptive motor power	G: general type P: fan type	B:integrated with brake function
Single phase 220VAC ±15%	0.75	1.0	8.2	4.5	VB	2	S	R75	G	B
	1.5	2.0	14	7	VB	2	S	1R5	G	B
	2.2	3.0	23	9.6	VB	2	S	2R2	G	B
Three phase 380VAC ±15%	0.75	1.0	3.4	2.1	VB	4	T	R75	G	B
	1.5	2.0	5	3.8	VB	4	T	1R5	G	B
	2.2	3.0	5.8	5.1	VB	4	T	2R2	G	B
	4/5.5	5.5/7.5	10.5/14.6	9/13	VB	4	T	4/5R5	G/P	B
	5.5/7.5	7.5/10	14.6/20.5	13/17	VB	4	T	5R5/7R5	G/P	B
	7.5	10.2	20.5	17	VB	4	T	7R5	G	B
	11/15	15/20	26/35	25/32	VB	4	T	011/015	G/P	B
	15/18.5	20/25	35/38.5	32/37	VB	4	T	015/18R5	G/P	B
	18.5/22	25/30	38.5/46	37/45	VB	4	T	18R5/022	G/P	B
	22/30	30/40	46.5/62	45/60	VB	4	T	022/030	G/P	B
	30/37	40/50	62/76	60/75	VB	4	T	030/037	G/P	/
	37/45	50/60	76/92	75/91	VB	4	T	037/045	G/P	/
	45/55	60/70	92/113	91/110	VB	4	T	045/055	G/P	/
	55/75	70/100	113/157	112/150	VB	4	T	055/075	G/P	/
	75/90	100/125	157/180	150/170	VB	4	T	075/090	G/P	/
	90/110	125/150	180/214	170/210	VB	4	T	090/110	G/P	/
	110/132	150/180	214/256	210/253	VB	4	T	110/132	G/P	/
	132/160	180/220	256/307	253/304	VB	4	T	132/160	G/P	/
	160/185	220/255	307/345	304/340	VB	4	T	160/185	G/P	/
	185/200	255/275	345/385	340/377	VB	4	T	185/200	G/P	/
	200/220	275/300	385/430	377/426	VB	4	T	200/220	G/P	/
	220/250	300/340	430/468	426/465	VB	4	T	220/250	G/P	/
	250/280	340/380	468/525	465/520	VB	4	T	250/280	G/P	/
	280/315	380/430	525/590	520/585	VB	4	T	280/315	G/P	/
	315/355	430/480	590/665	585/650	VB	4	T	315/355	G/P	/
	355/400	480/545	665/785	650/725	VB	4	T	355/400	G/P	/
	400	545	785	725	VB	4	T	400	G	/

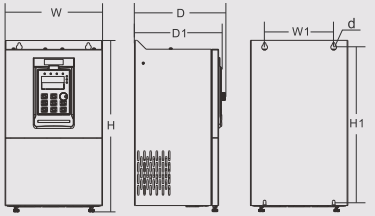
■ Dimensions(mm)

0.75kW-7.5kW dimension



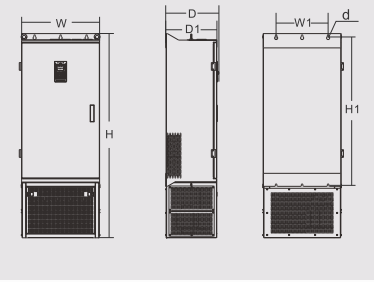
Inverter Model	Outline size H	W	D	D1	Installation dimension H1	W1	Opening size d
VB-2SR75GB	187	88	138	130	177	73	5
VB-2S1R5GB							
VB-2S2R2GB							
VB-4TR75GB							
VB-4T1R5GB							
VB-4T2R2GB							
VB-4T004GB/5R5PB	207	100	147	139	197	85	5
VB-4T5R5GB/7R5PB	247	130	167	159	237	113	5
VB-4T7R5GB							

11kW-185kW dimension



Inverter Model	Outline size H	W	D	D1	Installation dimension H1	W1	Opening size d
VB-4T011GB/015PB	348	182	211	196	331	156	6
VB-4T015GB/18R5PB							
VB-4T18R5GB/022PB	373	220	205	190	356	156	6
VB-4T022GB/030PB							
VB-4T030G/037P	435	256	222	208	419	170	6
VB-4T037G/045P							
VB-4T045G/055P	543	310	280	265	523	245	10
VB-4T055G/075P							
VB-4T075G/093P	580	358	328	314	560	270	10
VB-4T093G/110P							
VB-4T110G/132P							
VB-4T132G/160P	869	502	355	342	842	320	10
VB-4T160G/185P							
VB-4T185G/200P							

200kW-400kW dimension



Inverter Model	Outline size H	W	D	D1	Installation dimension H1	W1	Opening size d
VB-4T200G/220P	1570	600	408	398	1147	400	12
VB-4T220G/250P							
VB-4T250G/280P							
VB-4T280G/315P							
VB-4T315G/355P	1696	800	408	398	1266	520	12
VB-4T355G/400P							
VB-4T400G							

IIoT Solutions

Intelligent Water & Fertilizer Intergrated Pump Station

Background

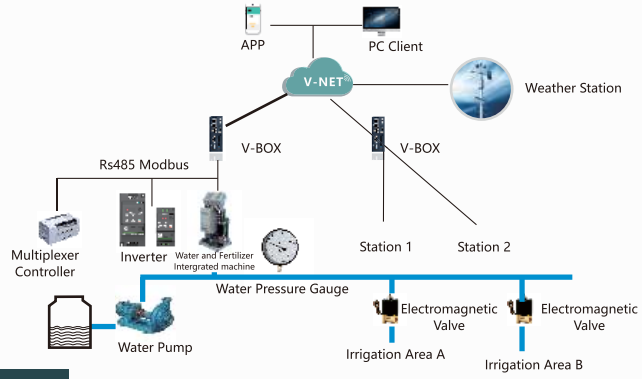
Water and Fertilizer Intergrated is a new agricultural technology that integrated management of irrigation and fertilization. It is based on pressure system to mix solid and liquid fertilizers, according to the soil nutrient content and the fertilizer requirements and characteristics of crop types.
The fertilizer and water are mixed together to supply water and fertilizer by pipeline system. After the water and fertilizer are melted, irrigation is formed through pipes and spray guns or sprinklers to supply water and nutrients to crops regularly, quantitatively and evenly.

Pain Points

- Unbalanced soil moisture and fertilizer, numerous of fertilization ratio data and tedious manual operation.
- Traditional fertilization is labor-intensive, time-consuming, and not in real time.
- It is not convenient for management with wide area of crop cultivation and large numbers of crops.

Solution

Water & Fertilizer Intergrated devices aims to realize automatic irrigation and fertilization. Through the smart detection platform for biogas slurry and fertilizer configured by V-NET and Cloud SCADA, soil temperature and humidity data are uploaded in real time.
Users can remotely view and monitor the Water & Fertilizer Intergrated devices by mobile phones or computers to make irrigation and fertilization more reasonable, so as to improve working efficiency.



Advantages

Unattended Operation

Real-time upload of temperature, humidity, water and fertilizer data through V-BOX or ig HMI, and visual management of the data in the form of graphs and curves.

Data Display

Real-time data monitoring of soil and crops, the remote opening of valves and the start and stop of timing rotation could be realized on V-NET, it can realize unattended irrigation, independent control, etc. It could prevent incorrect operation.

Alarm System

Real-time data monitoring of water pump current and voltage detection, outlet pressure, flow, etc., it could discover in time whether the irrigation system has unreasonable conditions such as water leakage, low pressure and broken pipes, also could send alarm messages in time to remind operator to carry out the maintenance so as to ensure the efficient operation of the irrigation system.

IIoT Solutions

Sewage Treatment Industry

Background

With the development of the cities, the construction of hotels, residential departments and villas, the increased requirements for high quality life and a liveable environment, the sewage in the living area should be treated discharge. It requires a remote operation management platform to realize monitoring and automatic operation for domestic sewage treatment and realize unmanned management of equipment, to achieve the effect of centralized management of sewage purification, environment beautification, water and energy saving.

Pain Points

- It is difficult to centralize design and management with widely distributed sewage water treatment in villages and towns.
- Engineers need to deal with it on site for devices unexpected failure, which time-consuming and labor-intensive.
- It is not easy to detect the device pressure value, flow value and other data, and the device is often overloaded and stop working.

Solution

Through V-NET and Cloud Scada platform, Wecon IIoT gateway V-BOX could monitor and upload of devices data in real time, centralized monitoring and processing sensor data, remote download PLC program, and notify alarm messages in time. The start and stop of valves are remotely controlled by mobile phones and computers to realize centralized management of water treatment stations.

Advantages

Unattended Operation

Real-time data monitoring of water volume and water quality of water pumps.
Off-line transmission ensures that the data of the monitoring is always online and works stably in an unattended state.

Alarm System

Alarm information can be pushed to V-BOX APP, email, SMS,Line, Telegram etc.
It could improve the efficiency of fault handling and maintenance management.

Multi-Users Management

The supervisor account can authorize and manage accounts at different levels to protect data, management system and correct operation, ensuring the safe and orderly operation of the system.

Map Monitoring

Device position would be displayed on the map of V-NET for one-stop monitoring.

Remote Operation

Centralized monitoring, remote commissioning, upgrade and maintain of water treatment devices without engineers on site. It would definitely reduce maintenance cost and improve management efficiently.

Application

Domestic water supply, Industrial water treatment, Sewage treatment