



WECON[®]
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WECON[®]

PRODUCTS CATALOG

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



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Better Team Better Products

Contribute to Intelligent Manufacturing.

Wecon Technology

Intelligent Connection Globally



**Devotes in
Better Product Experience and Support Customers Success.**



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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.

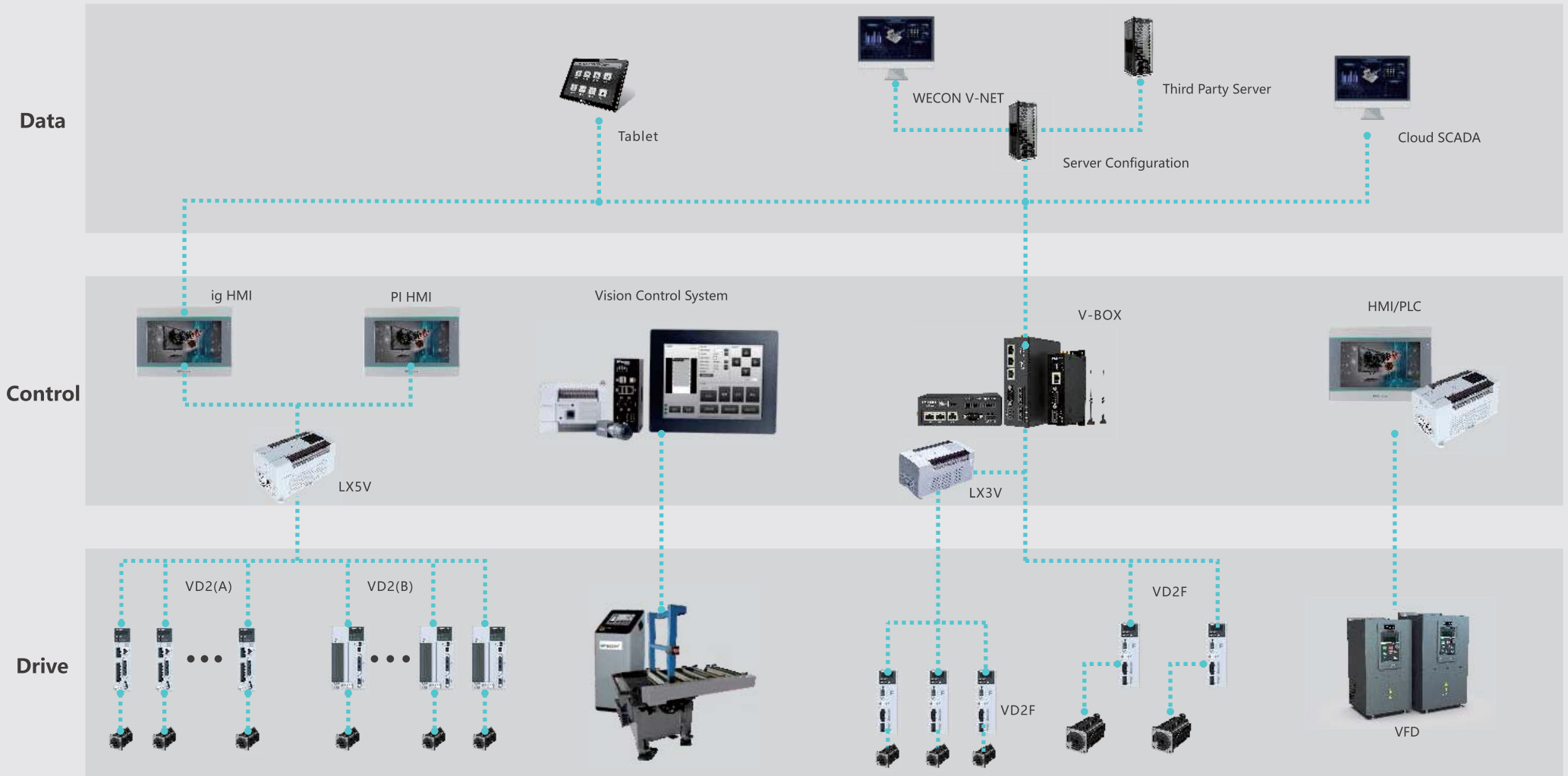
Until July 1st 2022, WECON have been authorized over 130 independent intellectual property rights, which includes 6 Invention Patents, 27 Utility patents, 9 Design Patents, and 96 software intellectual property rights. WECON has over 40 domestic offices all over China, more than 30 foreign distributors 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.

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WECON HMI



ig Series IoT HMI

ig IoT HMI, create for the Internet of Things



Installation



Installation function
Users can set fixed installation or dynamic installation 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

PI3000ie Series HMI

Quad Core CPU
Fast and Fluent Touch



08/48

MECON HMI

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



Fast



6 seconds for booting
100ms for screen switch

Numerous



300+ communication protocols
50+ objects

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



Unique



Unique installation 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		
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	50,000 Hours	
	Colors	16,000k colors	2,60k colors
Storage	Flash	128 MB	4GB
	RAM	128MB	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)	
	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℃	Storage: -20℃~60℃ 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	
Touch Screen	Resistive	
Display	Screen Size	7 Inch
	Resolution	800*480
	Brightness	250 cd/m ²
	Backlight Type	LED
	Backlight Life	50,000 Hours
	Colors	16,000k colors
Storage	Flash	128 MB
	RAM	128MB
	SD Card	YES
	USB	USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1 (cannot be used at the same time)
I/O Port	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
Dimension	Enclosure	Plastic+ABS (Polycarbonate)
	Dimension(mm)	201.2W*147.2H*39.0D
	Mounting Size(mm)	192.0W*138.0H
	Net Weight (KG)	0.52
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	PI3043ieS-T
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Item		Specifications			
CPU		Cortex A35			
Touch Screen		Resistive			
Display	Screen Size	3.5 Inch	4.3 Inch	4.3 Inch	4.3 Inch
	Resolution	320*240	480*272	480*272	480*272
	Brightness	300cd/ m ²			
	Backlight Type	LED			
	Backlight Life Time	50,000 Hours			
	Colors	16,000k colors			
Storage	Flash	128MB			
	RAM	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 1: COM1(RS232), COM1(RS485)
		Type 2: COM1(RS232), COM1(RS422)	Type 2: COM1(RS232), COM1(RS422)	Type 2: COM1(RS232), COM1(RS422), COM1(RS485)	Type 2: COM1(RS232), COM1(RS422)
	Ethernet	N/A	N/A	YES	N/A
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	142.0W*86.0H*38.9D	
	Mounting Size (mm)	91.0W*73.0D	131.0W*78.0H	131.0W*79.0H	
	Net Weight (KG)	0.14	0.19	0.21	
Environment	Protection	IP65 (Front panel)			
	Temperature	Storage: -20°C~70°C ; Working: -10°C~55°C			
	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
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Item		Specifications	
CPU		Cortex A35	
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	64MB	
	SD Card	NA	
	USB	USB Host: USB 2.0 x 1 ; USB Client: USB 2.0 x 1	
Ports	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°C~70°C ; Working: -10°C~55°C	
	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
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Item	Specifications					
CPU	Cortex A7					
Touch Screen	Resistive					
Display	Screen Size	7 Inch				
	Resolution	800*480				
	Brightness	250 cd/m ²				
	Backlight Type	LED				
	Backlight Life Time	50,000 Hours				
	Colors	16,000k colors				
Storage	Flash	128MB				
	RAM	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		RS232, RS422/RS485 (2 in 1)	
			COM2: RS232,RS485			
			COM3: RS485			
	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
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Item	Specification		
CPU	Cortex A7		
Touch Screen	Resistive		
Display	Screen Size	10.2inch	
	Resolution	1024*600	
	Brightness	350 cd/m ²	
	Backlight Type	LED	
	Backlight Life	50,000 Hours	
	Colors	16,000k colors	
Storage	Flash	128MB	
	RAM	128MB	
	SD Card	YES	
	RTC	YES	
	USB	USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1	
I/O Port	Serial Port	RS232, RS422/RS485 (2 in 1)	COM1: RS232,RS422/RS485 COM1: RS232,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)	1.00	1.2
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



PLC Applications Automatic Plug Wiring Machine



Fast Scan

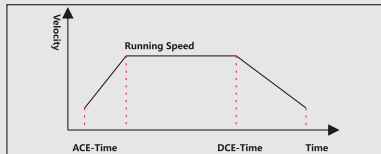
Program scanning speed: 0.2ms

Efficient Work

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

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



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 61131-3 LD programming mode, free tag protocol, faster and more efficient communication
- Nice appearance of PLC and module



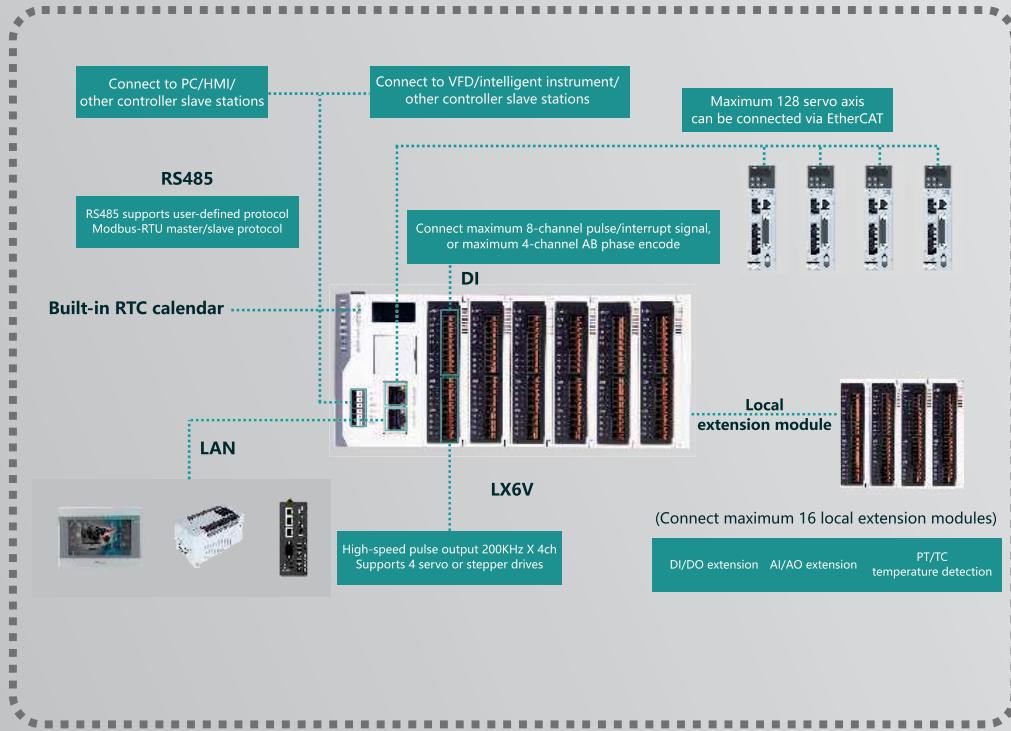
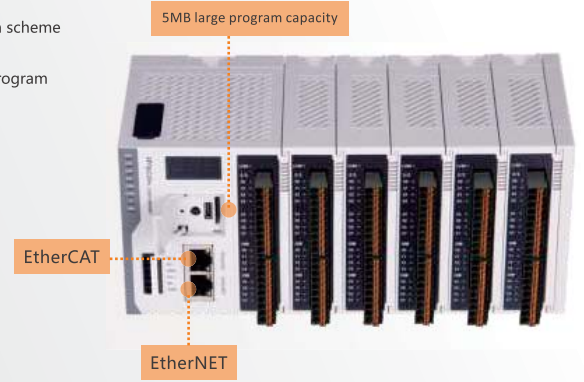
LX6V series PLC, small size and large capacity, a new evolution to bus PLC

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 EMMC	5M
Download/ Monitoring	Programming cable (Port) EtherNET USB TYPE-C
High Speed Pulse Output	Transistor type 4 channels/ 8 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
Filter	For all the input terminal s
Serial Port	RS485, RS485
Temperature	Working Temperature : 0 ~ 55 °C / Storage Temperature : -20 ~ 70 °C
Humidity	35~ 85%RH (Without condensation)
Shock Resistance	JIS C0040 Standard
Influence Immunity	Meet the IEC61000-4-4 and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P , pulse width 10µs, period 0.3 s, edge time 5ns , duration 1min.
TF	Support
ETHERNET	1000M Ethernet
ETHERCAT	Up to 128 servo axis

LX5V Series PLC

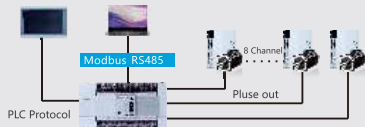


LX5S Series PLC



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.



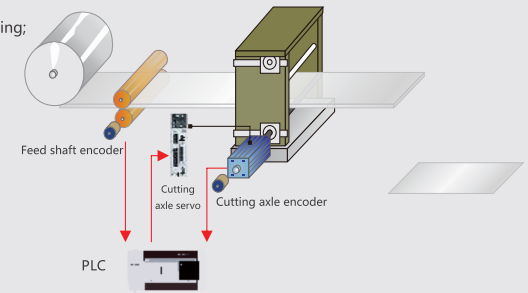
Easy Programming

- 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.

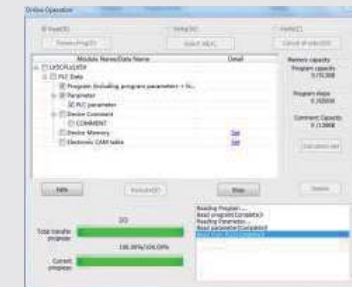


Functions

- 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)
Weighting	LX3V-16EYT	16 * Transistor Output	LX3V-8ITC	8 * Thermocouple Input	
	LX3V-1WT	1 * Weighting (24-bit)	Weighting	LX3V-2WT	2 * Weighting (24-bit)
High Speed Pulse Output	LX3V-1WT-L	1 * Weighting (18-bit)		LX3V-2WT-L	2 * Weighting (18-bit)
	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
	LCM-16EYR	16 * Relay Output, supports RS485 Modbus communication	LCM-4TC		4 * thermocouple input, supports RS485 Modbus communication.

LX3V SERIES BD Modules

BD Module	Function	BD Module	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

Compatible with all LX3V Series PLC

BD Module	Function	BD Module	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)
LX5V-2DAI-BD	2*Analog Current Output (4~20mA)	LX5V-2ADI2DAI	2 * Analog Input/ Analog Output (4~20mA)
LX5V-2PT-BD	2 * Thermal Resistance Input, Precision =0.2~0.3℃	LX5V-2PT2ADV-BD	2 * Thermal Resistance Input ; 2 * Analog Voltage input(-10V~10V)
LX5V-2PTS-BD	2 * Thermal Resistance Input, Precision =0.1℃	LX5V-2PT2DAI-BD	2 * Thermal Resistance Input ; 2 * Analog Output (4~20mA)
LX5V-2TC-BD	2 * Thermocouple Input(K Type, J Type)	LX5V-2PT2DAV-BD	2 * Thermal Resistance Input ; 2 * Analog Voltage Output(-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	75x107x87	2	YES	2	1	1	N/A	AC(DC)	N/A
LX5S-0806MR-A(D)	08/06	Relay	75x107x87	2	N/A	0	1	1	N/A	AC(DC)	N/A
LX5S-0806MR2H-A(D)	08/06	Mix	75x107x87	2	YES	2	1	1	N/A	AC(DC)	N/A

LX5S-1208MT-A(D)	12/08	Transistor	75x107x87	2	YES	2	1	1	N/A	AC(DC)	N/A
LX5S-1208MR-A(D)	12/08	Relay	75x107x87	2	N/A	0	1	1	N/A	AC(DC)	N/A
LX5S-1208MR2H-A(D)	12/08	Mix	75x107x87	2	YES	2	1	1	N/A	AC(DC)	N/A

LX5S-1412MT-A(D/AN/DN)	14/12	Transistor	137x107x87	2	YES	2	2	1	YES	AC(DC)	Optional
LX5S-1412MR-A(D/AN/DN)	14/12	Relay	137x107x87	2	N/A	0	2	1	YES	AC(DC)	Optional
LX5S-1412MR2H-A(D/AN/DN)	14/12	Mix	137x107x87	2	YES	2	2	1	YES	AC(DC)	Optional

LX5S-1616MT-A(D/AN/DN)	16/16	Transistor	175x107x87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-1616MR-A(D/AN/DN)	16/16	Relay	175x107x87	6	N/A	0	2	2	YES	AC(DC)	Optional
LX5S-1616MR2H-A(D/AN/DN)	16/16	Mix	175x107x87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-1616MT4H-A(D/AN/DN)	16/16	Transistor	175x107x87	6	YES	4	2	2	YES	AC(DC)	Optional

LX5S-2416MT-A(D/AN/DN)	24/16	Transistor	175x107x87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-2416MR-A(D/AN/DN)	24/16	Relay	175x107x87	6	N/A	0	2	2	YES	AC(DC)	Optional
LX5S-2416MR2H-A(D/AN/DN)	24/16	Mix	175x107x87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-2416MT4H-A(D/AN/DN)	24/16	Transistor	175x107x87	6	YES	4	2	2	YES	AC(DC)	Optional

LX5S-2424MT-A(D/AN/DN)	24/24	Transistor	220x107x87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-2424MR-A(D/AN/DN)	24/24	Relay	220x107x87	6	N/A	0	2	2	YES	AC(DC)	Optional
LX5S-2424MR2H-A(D/AN/DN)	24/24	Mix	220x107x87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-2424MT4H-A(D/AN/DN)	24/24	Transistor	220x107x87	6	YES	4	2	2	YES	AC(DC)	Optional

LX5S-3624MT-A(D/AN/DN)	36/24	Transistor	220x107x87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-3624MR-A(D/AN/DN)	36/24	Relay	220x107x87	6	N/A	0	2	2	YES	AC(DC)	Optional
LX5S-3624MR2H-A(D/AN/DN)	36/24	Mix	220x107x87	6	YES	2	2	2	YES	AC(DC)	Optional
LX5S-3624MT4H-A(D/AN/DN)	36/24	Transistor	220x107x87	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 150K Hz; 4 channel 10KHz	2 channel 150K Hz; 4 channel 10KHz	6 channel 150K Hz	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 100K Hz, supports 2 or 4 frequency multiplication 2 channels 10K Hz, supports 2 or 4 frequency multiplication	3 channels 100K Hz, supports 2 or 4 frequency multiplication	3 channels 100K Hz, supports 2 or 4 frequency multiplication
Power-down save	Adjusted by software			
Filter	For all X input terminal s			
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: 1~10u s	
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 °C / Storage Temperature : -20 ~ 70 °C	
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 insulation	Optical Coupler insulation
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 (High-speed output terminal:<5us)

PLC General Specifications

AC Power Supply

Item	LX3V/LX3VP(<=26I/Os)	LX3V/LX3VP(-26I/Os)
Voltage	AC 85-265V 50 - 60Hz	
Power Outage Time	10ms	
Rush Current	<15A 5ms / AC 100V; <30A 5ms / 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



Servo Applications

Infrared Stone Cutting Machine



Smart Control

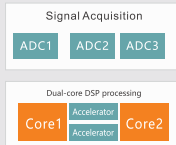
Real-time speed adjustment during cutting

Multiple Functions

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

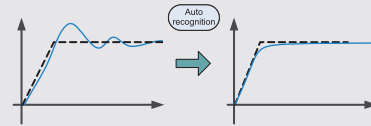
High Response

High performance CPU
Faster data reading
Faster calculation and sampling speed



Easy to Debug

Automatic load parameter tuning function



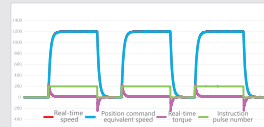
Strong Protection

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

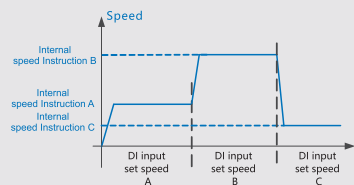


Personalise

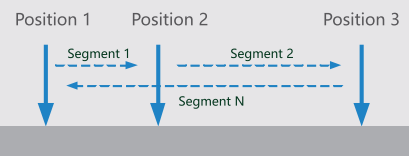
Virtual DI/DO function, four-channel real-time oscilloscope.



Support internal multi-speed instruction



Support internal multi-segment position instruction



Application

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

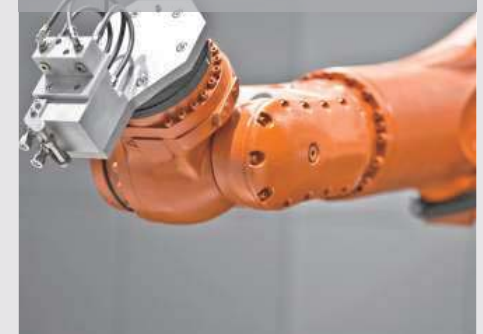
Automatic Plug Wiring Machine



Automated Production Lines



Industrial Robots

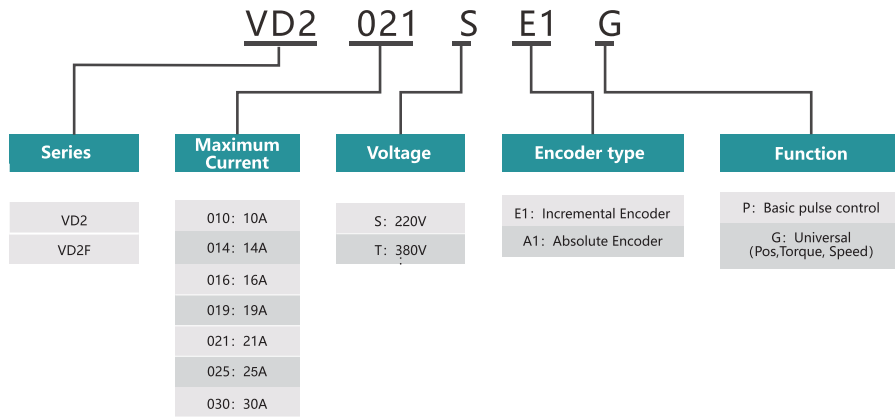


Textile Machinery

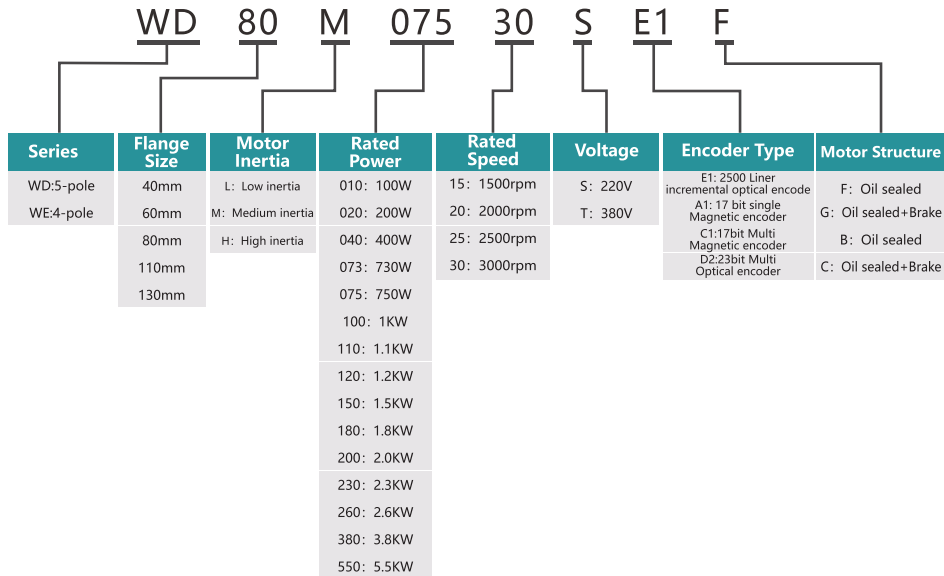


SERVO Naming Rules

Drive Naming Rules



Motor Naming Rules



Servo Drive & Motor Specifications

▲ : A1-Absolute value; E1-Incremental.
 P : Pulse control; G: General (Pos,Torque,speed) .
 H: High-speed DO (pulse feedback collector output)
 R: Support External PID function

Servo Drives

Series	Type	Drive Model	Max Current(A)	Power Supply (V)	Drive Model	Max Current(A)	Power Supply (V)
VD3E (EtherCAT)	A	VD3E-003SA1G	3	220	VD3E-010SA1G	10	220
		VD3E-014SA1G	14	220			
	B	VD3E-016SA1G	16	220	VD3E-019SA1G	19	220
		VD3E-021SA1G	21	220	VD3E-025SA1G	25	220
VD2	A	VD2-010SA1G	10	220	VD2-014SA1G	14	220
		VD2-010SA1H	10	220	VD2-014SA1H	14	220
		VD2-014SA1R	14	220			
	B	VD2-016S▲G	16	220	VD2-019S▲G	19	220
		VD2-021S▲G	21	220	VD2-025SA1G	25	220
		VD2-030SA1G	30	220	VD2-021TA1G	21	380
		VD2-016SA1H	16	220	VD2-019SA1H	19	220
		VD2-021SA1H	21	220			
VD2F	F	VD2F-003SA1P	3	220	VD2F-010SA1P	10	220
		VD2F-014SA1P	14	220			

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%

Servo Motors

Motor Model	Flange	Rated Power(KW)	Rated Torque(N.m)	Rated Speed(rpm)	Rated Current(A)	Max Torque(N.m)
WD40M-01030S○☆	40	0.1	0.32	3000	1	0.95
WD60M-04030S○☆	60	0.4	1.27	3000	2.5	3.81
WD60M-06030S○☆		0.6	1.91	3000	3.6	5.73
WD80M-07530S○☆	80	0.75	2.39	3000	4.4	7.17
WE80M-10025S○☆	80	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-12020S○☆	110	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-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-53030T○☆		5.3	17	3000	9.5	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)

VD3E EtherCAT Servo

Design for High Load Environment



- 125µs sync period
- <1µs sync jitter



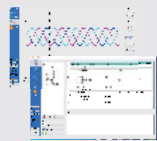
High Performance CPU

Multi-core Architecture
Communication & Control Parallel Processing
Higher Response
Stronger Performance



EtherCAT High-speed Bus Control

High Synchronization
Flexible Communication Connection
Flexible Networking



Rich Features

Parameter Self-tuning
Parameter Import and Export
Wave form Viewing and Storage
Vibration Suppression
Support Brake



multi-mode control

Homing Mode(HM)
Cyclic Synchronous Position Mode (CSP)

VD3E Drive Specifications

EtherCAT Type



Model

VD3E(A)

VD3E(B)

Item		VD3E
Basic Specifications	Power Supply	220V
	Control Method	IGBT PWM control sine wave current drive
	Encoder	17bit , 23bit absolute encoder
	Input Signal	6 DI inputs, select the input function according to the function code configuration
	Output Signal	3 DO outputs, select the output function according to the function code configuration
	Host Communication	USB interface. Function code parameter setting, status monitoring, waveform viewing, parameter self-tuning, etc. can be performed through upper computer
General Function	Braking Resistor	Built-in braking resistor, support external braking resistor
	Automatic Parameter Tuning	Automatic load inertia identification, automatic rigidity level and parameter self-tuning can be carried out through the cooperation of the upper computer
	Waveform Monitoring	The waveform of data such as real-time speed/torque/position deviation can be observed through the host computer
	Waveform Storage	The waveform acquisition frequency is 1KHz, and the original waveform data can be saved up to 10s
	Parameter import and Export	Support batch parameter import and export; support SDO download
	Vibration Suppression	Mechanical vibration can be suppressed 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 output control
	Universal Control DI	Servo enable (SON), fault and warning clear (A-CLR), forward drive prohibition (POT), reverse drive prohibition (NOT), emergency stop (E-STOP)
	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 open state output (SRV-ST), servo brake output (BRK-OFF), communication VDO
EtherCAT	Communication Protocol	EtherCAT protocol
	Support Service	CoE (PDO, SDO)
	Synchronously	DC-distributed clock
	physical Layer	100BASE-TX
	Baud Rate	100 Mbit/s (100Base-TX)
	Duplex Mode	Full Duplex
	Topology	Circular, Linear
	Transmission Medium	Shielded Cat 5e or better network cable.
	Transmission Distance	The distance between two nodes is less than 100M (the environment is good and the cable is good).
	Frame Length	44 bytes~1498 bytes
	Process Data	A single Ethernet frame is up to 1486 bytes.
	Sync Jitter	<1µs
Distributed Clock	64 bit	
EEPROM Capacity	8kbit initialization data is written by the EtherCAT master station	
Control Mode	CSP- HM	
Sync Cycle	125µs	

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 braking 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
	Function Setting	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
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 setttable 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

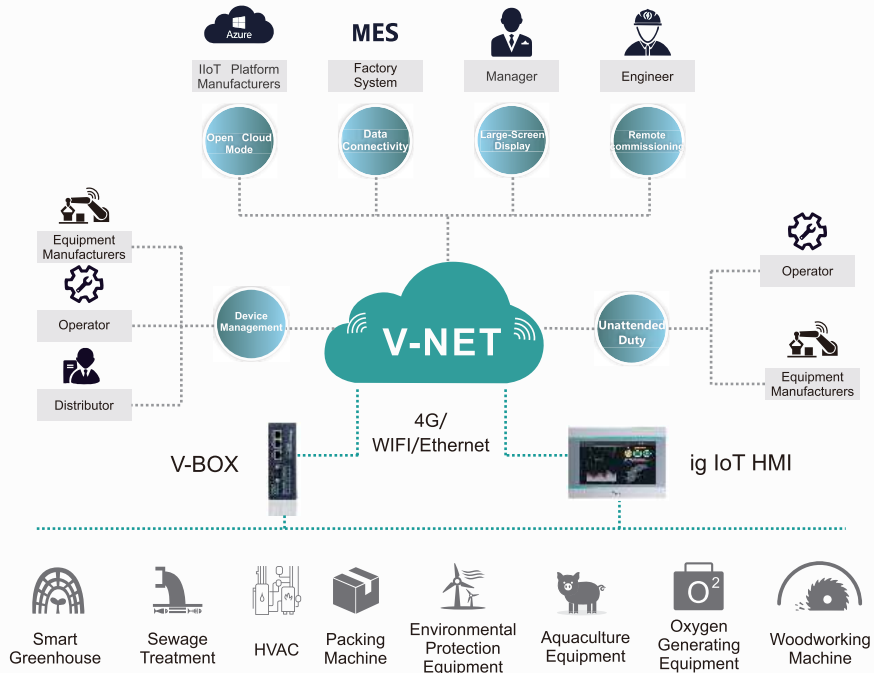
Item		VD2F Series	
Basic Specifications	Power Supply	220V	
	Control Method	IGBT PWM controlled sine wave current drive	
	Encoder	17 bit, 23 bit absolute encoder	
	Input Signal	4*DI	
	Output Signal	4*DO	
	Analog Signal Input	—	
	Pulse Signal Input	Open collector or differential input	
	Pulse Feedback 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 braking resistor; 400W without built-in braking 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
	Function Setting	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
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 IIoT

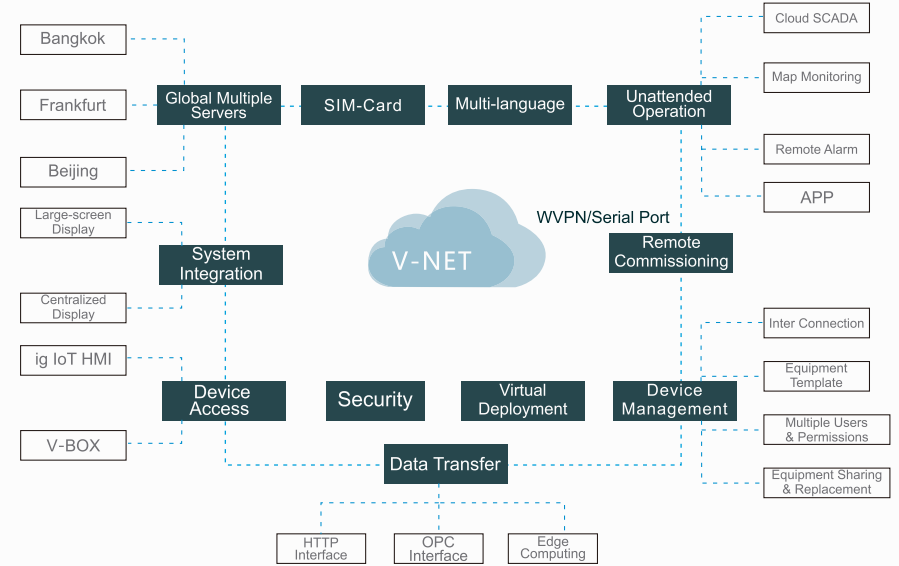
Products and Solutions



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	
Item	Specifications		
Storage	CPU	ARM 9	
	Flash	128MB	
	RAM	DDRII 64MB	
	SD Card	N/A	
I/O Ports	USB	OTG: USB HOST/USBDEVICE	
	Serial Ports	COM1: RS232, RS422/RS485(2 in 1)	
	Ethernet	1 Ethernet Port	
	WIFI Module	N/A	
	4G Module	N/A	4G
Power	Power Supply	24V DC (12-28V DC)	
	Power Consumption	< 10W	
Dimension	Enclosure	Cold-rolled steel sheets	
	Dimension (W*H*D)	101.0mm*73.2mm*26.8mm	
	Wall Hanging Dimension	110.0mm*15.6mm	
	Weight (KG)	0.26	
Environment	Vibration Resistance	IEC61131-2 Standard	
	Storage Temperature	-20°C~70°C	
	Working Temperature	-10°C~60°C	
	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
B1/B3/B5/B8			B34/B38/B39/B40/B41

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	
Item	Specifications				
Storage	CPU	Cortex A7			
	Flash	128MB			
	RAM	DDRIII 128MB			
	USB	HOST/DEVICE: USB OTG Switch			
I/O Ports	Serial Ports	COM1: RS232, RS422/RS485 (2 in 1)			
		RS485(2 in 1) 【COM2: RS485, COM3: RS485】			
	Ethernet	3 Ethernet Ports			
	WIFI Module	N/A	YES	N/A	N/A
	4G Module	N/A	N/A	4G	4G (Global)
Power	I/O	2 inputs with optocoupler isolation; 2 relay outputs			
	Power Supply	24V DC (12-28V DC)			
	Power Consumption	<10W			
Dimension	Enclosure	PC+ABS			
	Dimension (W*H*D)	131.0mm*100.5mm*46.0mm			
	Weight (KG)	0.3			
Environment	Vibration Resistance	IEC61131-2 Standard			
	Storage Temperature	-20°C~70°C			
	Working Temperature	-10°C~60°C			
	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		
B1/B3/B5/B8			B34/B38/B39/B40/B41		
H-AG model frequency code					
LTE FDD			LTE TDD		
B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28			B38/B39/B66		

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/415V/440V): 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

Application

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



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; fluctuation range: 220V(-15%)~220V(+15%); 380V/415V/440V; fluctuation range: 380V(-15%)~440V(+10%)
	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°C ~ + 40°C (service is derated capability for 40°C ~ 50°C)
	Humidity	≤95%RH, no water condensation
	Vibration	< 5.9m/s ² (0.6g)
	Storage Temperature	- 40°C ~ + 60°C

Model number description

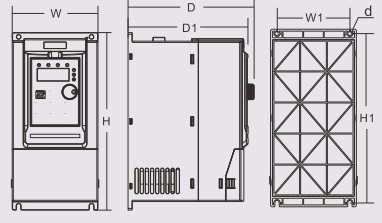
VB - 4 T 18R5GB /022PB		
VB: Product Series	4: 220VAC, 4: 380V/415V/440V AC	022: 22kW P: Variable Torque Load B: Braking Unit Within
S: Single phase, T: Three phase	18R5: 18.5kw R: Refers to Decimal Point G: Constant Torque Load B: Braking Unit Within	

■ Specification and selection guide

Voltage grade	Power		Rated input 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
	kW	HP								
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
	0.75	1.0	3.4	2.1	VB	4	T	R75	G	B
Three phase 380VAC ±15%	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	/	

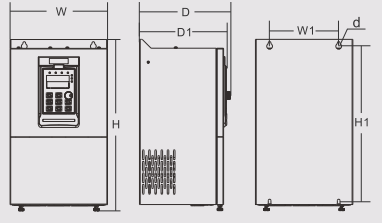
■ Dimensions(mm)

0.75kW-7.5kW dimension



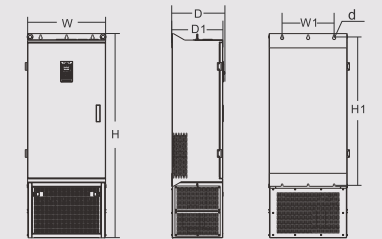
Inverter Model	Outline size				Installation dimension		Opening size d
	H	W	D	D1	H1	W1	
VB-2SR75GB	187	88	138	130	177	73	5
VB-2S1R5GB							
VB-2S2R2GB							
VB-4TR75GB							
VB-4T1R5GB							
VB-4T2R2GB	207	100	147	139	197	85	5
VB-4T004GB/5R5PB							
VB-4T5R5GB/7R5PB							
VB-4T7R5GB	247	130	167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

11kW-185kW dimension



Inverter Model	Outline size				Installation dimension		Opening size d
	H	W	D	D1	H1	W1	
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	869	502	355	342	842	320	10
VB-4T132G/160P							
VB-4T160G/185P							
VB-4T185G/200P							

200kW-400kW dimension



Inverter Model	Outline size				Installation dimension		Opening size d
	H	W	D	D1	H1	W1	
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.

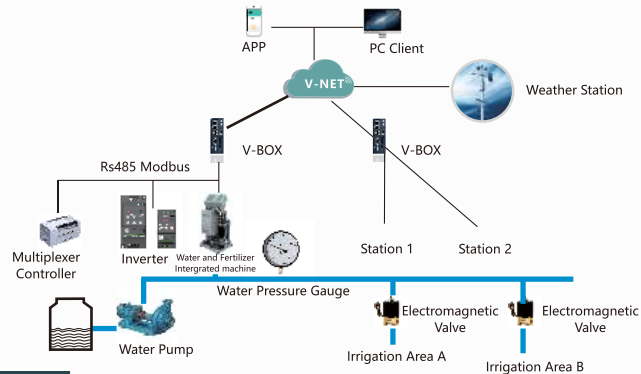
Pain Points

- 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.

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.

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

