Making Better Automation to Build Your Success

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PRODUCTS CATALOG

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

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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 2024, WECON have been authorized over 160 independent intellectual property rights, which includes 11 Invention Patents, 28 Utility patents, 9 Design Patents, and 116 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.

WECON has over 40 domestic offices all over China, more than 50 foreign distributors in 27 countries. The business covers the main industrial countries, locating in Asia, Europe, America, Austral and Africa.

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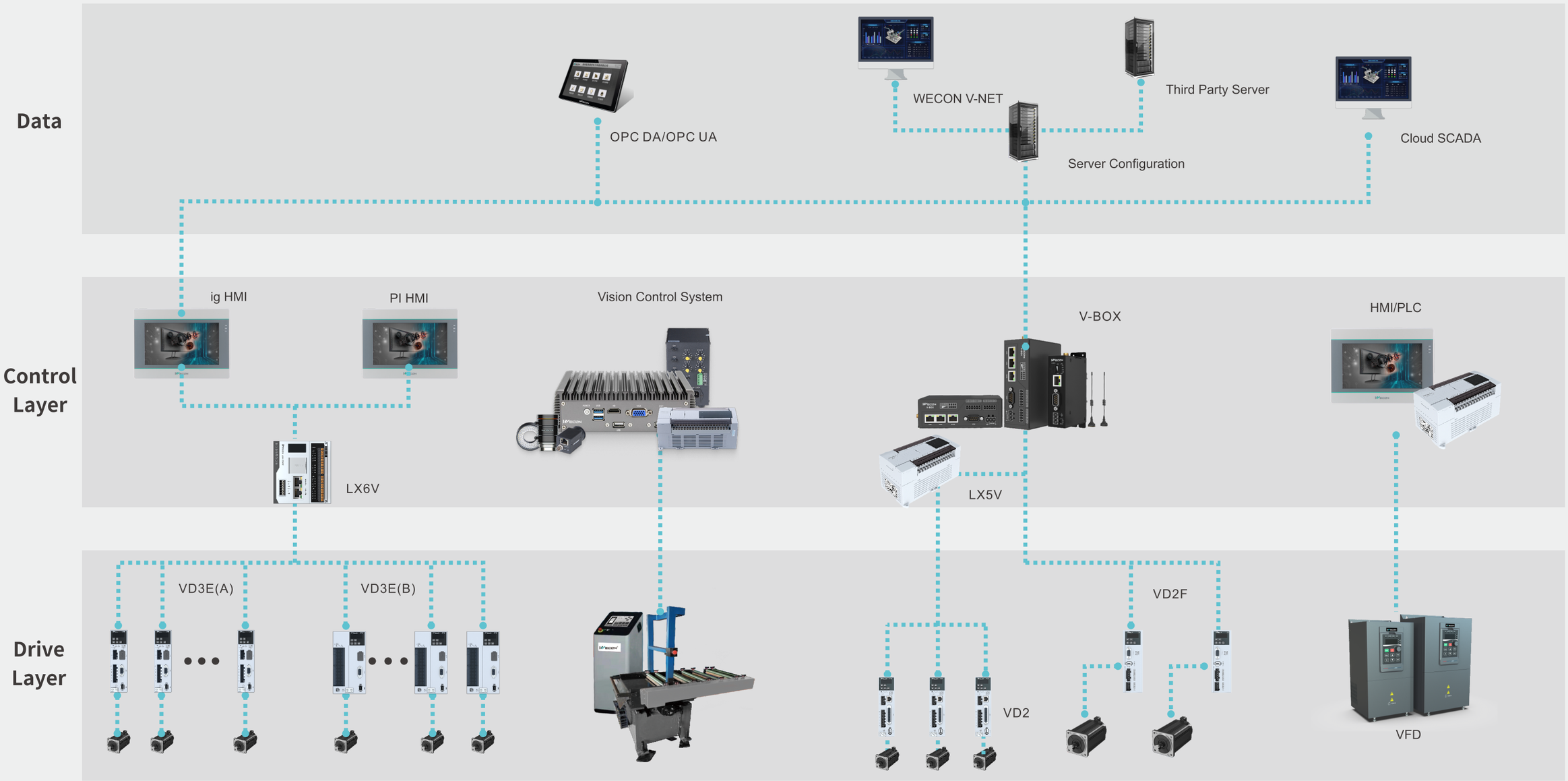

Data
OPC DA/OPC UA
WECON V-NET
Third Party Server
Server Configuration
Cloud SCADA
Control Layer
ig HMI
PI HMI
Vision Control System
V-BOX
HMI/PLC
LX6V
LX5V
Drive Layer
VD3E(A)
VD3E(B)
VD2
VD2F
VFD

Smart Treatment for Water

Smart Factory

Automatic Plug Wiring Machine

Textile Machinery

ig Series IoT HMI

ig IoT HMI, create for the Internet of Things

PI8150ig High Definition IoT HMI

Aluminium Alloy Panel

High-definition

Wide Viewing Angle

Device Management

- Multi-device management
- Multi-authority account

Alarm Notification

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

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

Remote Maintenance

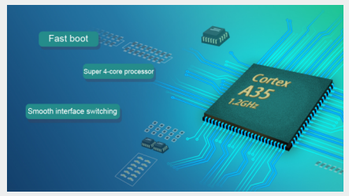
- Sync data to cloud
- Remote access
- WVPN pass-through
- Remote debug

System Integration

- Cloud SCADA
- Big screen display
- Equipment connection

4-core CPU

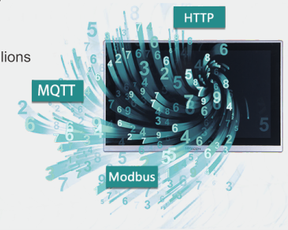
With Cortex A35 1.2GHz high performance processor
PI8150ig has powerful operation processing capability



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



ig SPECIFICATIONS

IOT HMI

Model	PI3070ig	PI3102ig	PI3070ig-O-H	PI3102ig-O-H

Item		Specifications			
CPU		High Performance CPU			
Touch Screen		Resistive			
Display	Screen Size	7 Inch	10.1 Inch	7 Inch	10.1 Inch
	Resolution	800*480	1024*600	1024*600	1024*600
	Brightness	250 cd/㎡	350 cd/㎡	250 cd/㎡	350 cd/㎡
	Backlight Type	LED			
	Backlight Life	50,000 Hours			
Storage	Flash	128MB			
	RAM	128MB			
	SD Card	YES			
I/O Port	USB	USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1 (can not 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		N/A	
Permanent Calendar		Built-in			
Power	Power Supply	24V DC (12~28V DC)			
	Power Consumption	<8W	<10W	<8W	<10W
Dimension	Enclosure	Plastic+ABS (Polycarbonate)			
	Dimension(mm)	201.2W*147.2H*39.0D	272.0W*191.0H*41.5D	201.2W*147.2H*39.0D	272.0W*191.0H*41.5D
	Mounting Size(mm)	192.0W*138.0H	260.0W*179.0H	192.0W*138.0H	260.0W*179.0H
	Net Weight(KG)	0.52	1.02	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			
FCC Certification		FCC Class A			
Programming Software		PI Studio			
IoT Service (optional)	Real-time Monitoring Points	100		N/A	
	Alarm Monitoring Points	20		N/A	
	History Monitoring Points	50		N/A	
	History Storage	60 days / 1 millions		N/A	
VPN Pass-through		YES		N/A	

ig SPECIFICATIONS

Advanced HMI

Model	PI8043ig	PI8070ig	PI8102ig	PI8150ig

Item		Specifications			
CPU		High Performance CPU			
Touch Screen		Resistive			
Display	Screen Size	4.3 Inch	7 Inch	10.1 Inch	15 Inch
	Resolution	480*272	800*480	1024*600	1920*1080
	Brightness	300 cd/㎡	250 cd/㎡	350 cd/㎡	250 cd/㎡
	Backlight Type	LED			
	Backlight Life	50,000 Hours			
Storage	Flash	4GB			
	RAM	512MB			
	SD Card	N/A	YES		YES (TF Card)
I/O Port	USB	USB Host: 2.0 x 1; USB Device: Type-C 2.0 (can not be used at the same time)	USB Host: 2.0 x 1; USB Client: USB 2.0 x 1 (can not 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		<15W
Dimension	Enclosure	Plastic+ABS (Polycarbonate)			Aluminum+Metal + ABS
	Dimension(mm)	142.0W*86.0H*30.5D	201.2W*147.2H*39.0	272.0W*191.0H*41.5D	403.0W*253.0H*35.2D
	Mounting Size(mm)	131.0W*78.0H	192.0W*138.0H	260.0W*179.0H	394.0W*244.0H
	Net Weight(KG)	0.39	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: 300			
		Alarm Monitoring Points: 200			
		History Monitoring Points: 100			
		History Storage : 120 days / 1 millions			
	VPN Pass-through	YES			

PI3000ie SPECIFICATIONS

Economical HMI

Model	PI3035ie	PI3043ie	PI3043ieS-N	PI3043ie-T

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/㎡			
	Backlight Type	LED			
	Backlight Life Time	50,000 Hours			
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(12~28VDC)			
	Power Consumption	< 5W			
Dimension	Enclosure	Plastic+ABS（Polycarbonate）			
	Dimension(mm)	96.0W*81.0W*33.0D	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℃~70℃；Working:-10℃~55℃			
	Humidity	10 ~ 90%RH (Non-condensing)			
	Vibration Resistance	10 ~ 25 Hz (X, Y, Z direction2G/30minutes)			
CE Certification		CE Marked			
Programming Software		PI Studio			
Remote Control		N/A			

PI3000ie SPECIFICATIONS

Economical HMI

Model	PI3070ie	PI3102ie

Item		Specifications	
CPU		Cortex A35	
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 Time	50,000 Hours	
Storage	Flash	128MB	
	RAM	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 direction2G/30minutes)	
CE Certification		CE Marked	
Programming Software		PI Studio	
Remote Control		N/A	

PI3000i SPECIFICATIONS

Basic HMI

Model	PI3070i	PI3070i-2S	PI3070i-A	PI3070i-SL

Item		Specifications			
CPU		Cortex A7			
Touch Screen		Resistive			
Display	Screen Size	7 Inch			
	Resolution	800*480			
	Brightness	250 cd/m²			
	Backlight Type	LED			
	Backlight Life Time	50,000 Hours			
Storage	Flash	128MB			
	RAM	128MB			
	SD Card	NA	YES	YES	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
	CAN	N/A	N/A	YES	N/A
Permanent Calendar		Built-in			
Power	Power Supply	24V DC(12~28VDC)			
	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 direction2G/30minutes)			
CE Certification		CE Marked			
FCC Certification		FCC Class A			
Programming Software		PI Studio			
Remote Control		N/A			

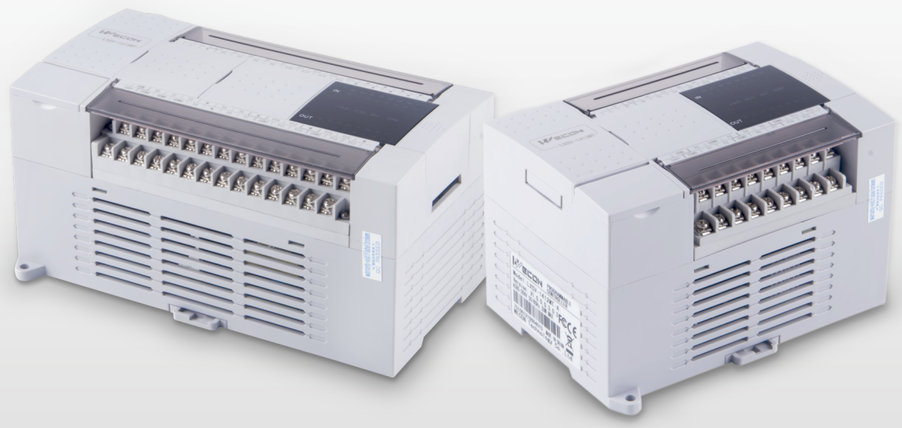
PI3000i SPECIFICATIONS

Basic HMI

Model	PI3102i	PI3102i-2S	PI3102i-A

Item		Specification		
CPU		Cortex A7		
Touch Screen		Resistive		
Display	Screen Size	10.2inch		
	Resolution	1024*600		
	Brightness	350 cd/㎡		
	Backlight Type	LED		
	Backlight Life	50,000 Hours		
Storage	Flash	128MB		
	RAM	128MB		
	SD Card	N/A	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 COM2: RS232,RS485 COM3: RS485	COM1: RS232 ,RS422/RS485 、CAN COM2: RS232,RS485 COM3: RS485
	Ethernet	YES		
	CAN	N/A		YES
Permanent Calendar		Built-in		
Power	Power Supply	24V DC(12~28VDC)		
	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 direction2G/30minutes)		
CE Certification		CE Marked		
FCC Certification		FCC Class A		
Programming Software		PI Studio		
Remote Control		N/A		

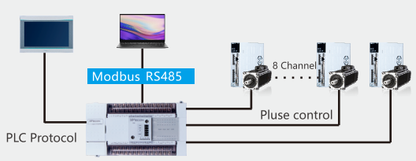
LX5V Series PLC



LX5S Series PLC

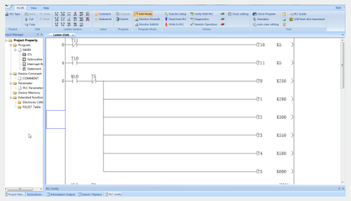
8 Channels High Speed I/O

- 8 channels 150KHz high-speed input;
- 8 channels 200KHz high-speed output;
- Fast and accurate control.



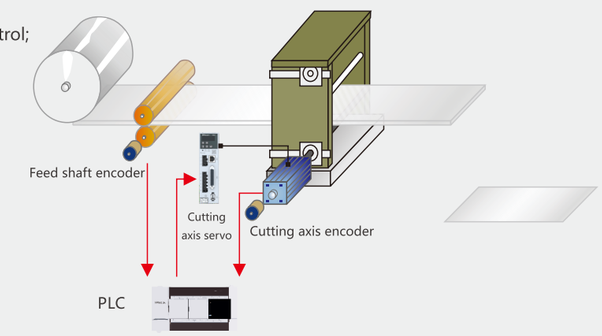
Easy Programming

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



Functions

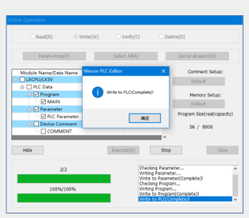
- Support to modify frequency and position during pulse control;
- Support the highest baud rate: 921600;
- Support 100us high-speed timer interrupts;
- Support up to 100 high-speed counter interrupts;
- Support E-CAM;
- Support electronic gear;
- Support efficient and stable PID and CCPID self-tuning;
- Support LX3V series modules;
- USB power supply;
- Same software with LX5V;
- 0.03μs~0.08μs for basic instruction execution.



E-cam -- Flying cutting function

Execution

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

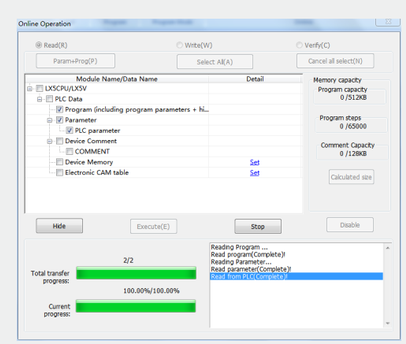


Functions

- Support to modify frequency and position during pulse control;
- Support the highest baud rate: 921600;
- Support 100μs high-speed timer interrupts;
- Support up to 100 high-speed counter interrupts;
- Support E-CAM;
- Support electronic gear;
- Support efficient and stable PID and CCPID self-tuning;
- Support BD module of LX3V 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.



A500 Series PLC

Platform-type

A500 Series

Self-developed

Independent and controllable upper and lower computer system

High-performance processor

4 cores 1GHz, A35 CPU

Large capacity storage

512M running memory, 4G storage and TF card optional

Excellent expansion capabilities

Support 6 local pulse axes,
16 axes / 1ms processing speed and supports up to 32 axes

Narrow body, easy to install

Ultra-thin blade expansion module
Screw-free, removable spring terminals

Multiple download/communication methods

Support two expansion cards on host PLC
Support TF card and RTC card
Supports up to 32 expansion modules

Specification

Model	A500 Series
Program Execution	Loop scan / interrupt
Programming Language	LD/SFC/ST
Instructions	Basic instruction: 29 / Application instruction: 170
Execution Time	Basic instruction: 0.01-0.02μs
Program Capacity	5MB
Download and Monitoring	EtherNet
	USB TYPE-C
High Speed Output	Transistor: 6 channels 200KHz
High Speed Counter Interrupt	100 channels
Timing Interrupt	100 channels, support 0.1ms interrupt
External Input Interrupt	X0 to X7, support both rising edge and falling edge
High Speed Input (single phase)	8 channels 150KHz
High Speed Input (AB phase)	4 channels 150KHz, support 1/2/4 times frequency
Latch Function	Configured by software
Storage	Flash
Filter	For all input terminals
Serial	RS485
Temperature	Working temperature: 0 to 55℃ / Storage temperature: -20 to 70℃
Humidity	35 to 85%RH (no condensation)
Shock Resistance	JIS C 0040 Standard
Anti-interference	IEC61000-4-4 and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P, 10μs pulse width, 0.3S period, edge 5ns; continuous action for 1 minute
TF card	Support
EtherNet	100M
EtherCAT	Support up to 32 servo axis

A500 PLC Model	I / O	Output Type	Dimension (mm)	Pulse Counter	E-CAM	Pulse Output	RS485	EtherCAT	Number of Modules	Power Supply	Ethernet
A520-0808N-D	08/08	Transistor	58X108X98	4	YES	6	1	-	32	DC	YES
A521-0808N-D	08/08	Transistor	58X108X98	4	YES	6	1	8 Axis	32	DC	YES
A522-0808N-D	08/08	Transistor	58X108X98	4	YES	6	1	16 Axis	32	DC	YES
A523-0808N-D	08/08	Transistor	58X108X98	4	YES	6	1	32 Axis	32	DC	YES

A500 Series expansion module		Specification
I/O	AE30-1600	16*Digital Input
	AE30-0016N	16 * Transistor Output（NPN）
	AE30-0808N	8 * Input，8 * Transistor Output（NPN）
	AE30-0016P	16 * Transistor Output（PNP）
Analog	AE30-4AD	4 * Analog Input
	AE30-4DA	4 * Analog Output
Temperature	AE30-4TC	4 * Thermocouple Input
	AE30-4PT	4 * Thermal Resistance Input
Weighting	AE30-2WT	2 * Weighting

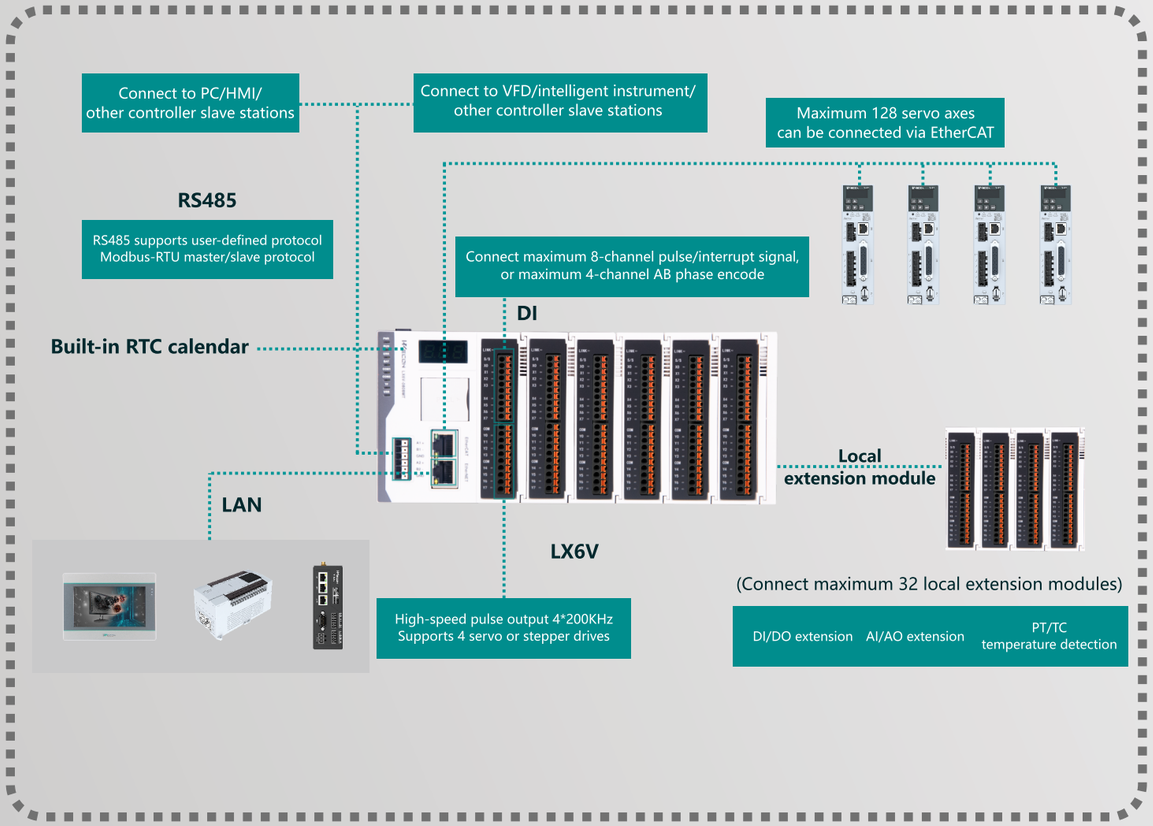
A500 Series Communication Card	Description
AL30-RTC2RS485	Extended real-time clock and 2-channel RS485 interface
AL30-ETH	Extended one Ethernet interface
AL30-TF	Extended one TF card interface

LX6V(6S) Series PLC

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



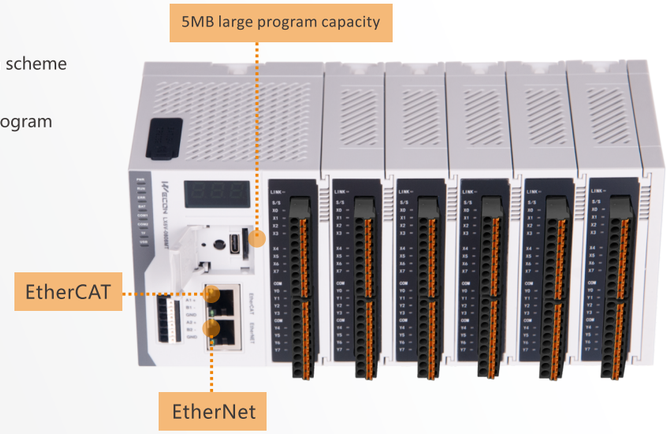
LX6V/LX6S series PLC, small size and large capacity, a new evolution to bus PLC

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

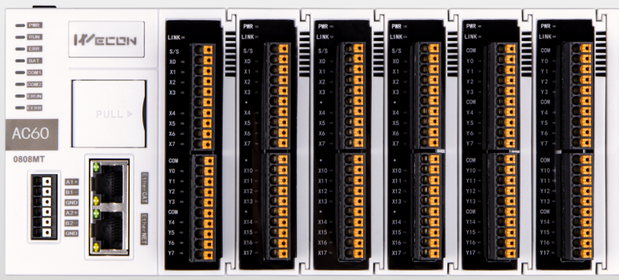


PLC General

Item	LX6V(LX6S)-0808MT/1616MT
Running Mode	Cycle Scan/ Interrupt
Programming	LD/SFC/ST
Total Instructions	Basic instruction: 29 / Application instruction: 170
Execute time	Basic instruction 0.01-0.02μs
System EMMC	5MB
Download/Monitoring	Programming cable (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	8 channels 150 KHz
High Speed Input AB Phase	4 channels 150K Hz, supports 2 or 4 frequency multiplication
Power-down save	Adjusted by software
Storage	FLASH
Filter	For all the input terminals
Serial Port	2 channels RS485
Temperature	Working Temperature: 0 ~ 55℃ / Storage Temperature: -20 ~ 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.
TF	Optional
ETHERNET	Megabit Ethernet(LX6S) / Gigabit Ethernet for LX6V
ETHERCAT	Up to 128 servo axis

AC60 Series PLC

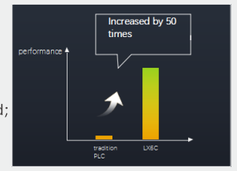
AC60
High-performance
Medium-size Controller



Based on
the **CODESYS** Platform

Program Execution
––SUPERIOR SPEED

4-core 1.8GCPU boosts
instruction processing speed;
ns-level basic instruction execution speed;
Multitasking management system.



Expansion Module
––Scale at High Speed

High speed communication,
quick response;Free optional,
Flexible matching to meet needs;
Blade structure,
easy to install and save space.

Communication Protocol
––Seamless Connectivity

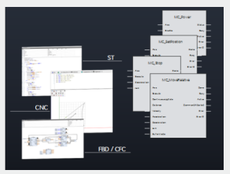
Standard with Ethernet,
Multi-protocol link

Motion Control
––Ultimate Operation Control

Single-axis motion control;
Multi-axis motion control;
Buffer Mode;
Movement superposition.

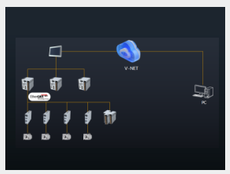
Project Development
––Rapid Development

Follow the PLCopen2.0 Standard,
easy programming Program online monitoring,
easy debugging User permissions management, project password.



Operation & Maintenance
––Perfectly and Reliable

Easily remote debugging and
upgrade in V-NET System



Specifications

Model		AC60-0808MT-D0	AC60-0808MT-DA	AC60-0808MT-DB	AC60-0808MT-DC	AC60-0808MT-DD
Power Supply		DC 24V±10%，1A，Support short circuit/reverse connection protection				
Local IO		8 digital input (PNP/NPN), 8 digital output (NPN)				
Program Space	Program Capacity	50MB				
	Variable Capacity	10MB				
	I Area (%I)	128KB				
	Q Area (%Q)	128KB				
	M Area (%M)	512KB				
	Power-down Latch	1MB				
Programming Language		LD/IL/FBD/CFC/SFC/ST				
Ethernet	Function	Communication, debugging, uploading and downloading programs, firmware upgrade, etc.				
	Data Transmission	1000Mbps/100Mbps/10Mbps				
	Total TCP	Maximum 128				
	Modbus TCP	Maximum 128				
	Socket	Maximum 128				
	Cable	Standard industrial Ethernet communication				
EtherNet/IP	Server	Maximum connections: 128				
	Client	Maximum connections: 128				
EtherCAT	Transmission	100Mbsp(100Base-TX)				
	EtherCAT Servo	0	8	16	32	64
	EtherCAT Slave	——	Support up to 256 EtherCAT slave			
	Synchronization	——	1ms for 8 axis	1ms for 16 axis	1ms for 24 axis	
USB	Quantity	1 channel TYPE-C interface				
	Function	RTC calibration, IP setting, firmware upgrade, etc.				
	Specifications	USB 2.0				
RS485	Quantity	2				
	Baud Rate (bps)	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200				
	Maximum	500m (9600 baud rate)				
	Communication	Half duplex				
	Support Protocol	Modbus master/slave (RTU/ASCII), free communication protocol				
	Maximum Number of Slaves	31				
High Speed input	Channel	4				
	Maximum Input Frequency	200K				
	Input Mode	Single phase, pulse+direction, AB phase, CW/CCW				
	Other Function	2 touch probe, hardware preset, comparison output				
High Speed Output	Channel	4				
	Maximum Output Frequency	200K				
	Input Mode	Pulse+direction, AB phase, CW/CCW, PWM				
	Other Function	2 touch probe, origin return hardware limit, emergency stop				
Local Expansion Modules		Compatible with LX6V series expansion modules, support up to 32 modules				
TF card		Optional				
Motion Control		YES				
OPC UA Server		N/A	N/A	N/A	N/A	YES
CNC		N/A	N/A	YES	YES	YES
Robotic		N/A	N/A	YES	YES	YES
WebVisu		N/A	N/A	N/A	YES	YES
Multi-core 4 Cores		N/A	N/A	N/A	N/A	YES
Software		WECSYS（Standard IEC 61131-3）				

LX6 & LX5 Series PLC Models

LX6 PLC Model	I / O	Output Type	Dimension (mm)	Pulse Counter	E-CAM	Pulse Output	RS485	EtherCAT	BD Board	Power Supply	Ethernet
LX6S-0808MT-D0	08/08	Transistor	85x90x110	4	YES	4	2	--	32	DC	Megabit
LX6S-0808MT-DA	08/08	Transistor	85x90x110	4	YES	4	2	8 Axis	32	DC	Megabit
LX6S-0808MT-DB	08/08	Transistor	85x90x110	4	YES	4	2	16 Axis	32	DC	Megabit
LX6V-0808MT-DB	08/08	Transistor	85x90x110	4	YES	4	2	16 Axis	32	DC	Gigabit
LX6V-0808MT-DC	08/08	Transistor	85x90x110	4	YES	4	2	32 Axis	32	DC	Gigabit
LX6V-0808MT-DD	08/08	Transistor	85x90x110	4	YES	4	2	64 Axis	32	DC	Gigabit
LX6V-0808MT-DE	08/08	Transistor	85x90x110	4	YES	4	2	128 Axis	32	DC	Gigabit

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 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	YES	2	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	YES	2	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 Models

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 Models

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

Item	LX5V-1212MT/1412MT	LX5V-1616MT/2416MT	LX5V-2424MT/3624MT
Running Mode	Cycle 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 inputinterrupt	X0-X7 supports bothrising and falling edges		
High Speed Input Single	4 Channels 150KHz	8 Channels 150KHz	8 Channels 150KHz
HighSpeed Input AB Phase	4 channel100KHz, frequencymodes:1/2/4 times	8 channel100KHz, frequencymodes:1/2/4 times	8 channel100KHz, frequencymodes: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 IEC61000-4-4and GB/T 17626.4 standard: Noise voltage amplitude 1KVP-P , pulse width10us, period 0.3s, 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

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	Cycle Scan/ Interrupt / Event			
Programming	Instruction table/ladder diagram			
Total Instructions	Basic instruction: 29 / Application instruction: 170			
Execute time	Basic instruction 0.03-0.08 μs			
System EMMC	512KB			
Download/ Monitoring	Programming cable (serial type) / MicroUSB / 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 100KHz, supports 2 or 4 frequency multiplication 2 channels 10KHz, supports 2 or 4 frequency multiplication	1 channel 100KHz, supports 2 or 4 frequency multiplication 2 channels 10KHz, 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 0.3s, edge time 5ns , duration 1min.			
USB Supply	YES			

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（DC 30V）
Insulation		Mechanistic	Optical Coupling
Leak Current		--	0.1mA / DC 30V
Minimum Load		--	DC 5V 2mA
Maximum Output Current	Resistive load	2A/output terminal 8A/COM terminal	0.5A/output terminal 0.8A/COM terminal 0.3A/High speed output terminal
	Inductive load	80VA	12W/DC24V 7.2W/High speed output terminal
	Lamp load	100W	0.9W/DC24V
Response Time	ON	<10ms	<0.2ms （High speed output terminal:<5us）
	OFF		

PLC General Specifications

	LX3V Series	LX3VP Series
Running Mode	Cycle 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 0.3s, edge time 5ns, duration 1min.	

AC Power Supply

Item	≤26 I/O	≥ 26 I/O
Power Supply	LX3V Series：AC85~264V 50~60Hz; LX5V/S Series： AC85~265V 50~60Hz	
Power Outage Time	10ms	
Rush Current	<15A 5ms / AC 100V; <30A5ms / AC 200V	
Power Fuse	250V 3.15A	
Power Consumption	<35W	<60W
Power Output	DC 24V 700mA	

DC Power Supply

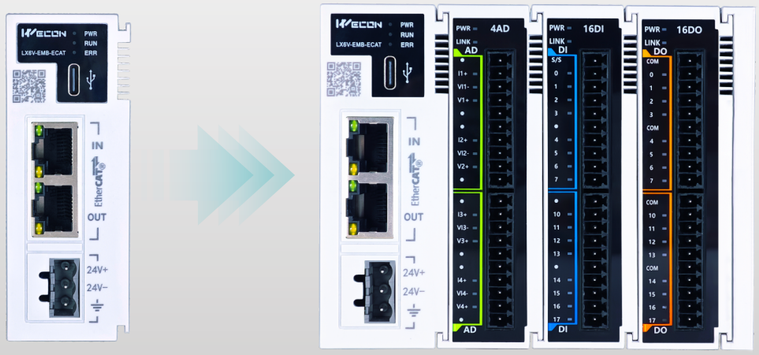
Item	LX3V / LX3VP / LX5V/ LX5S PLC	LX6VPLC
Power Supply	DC 24V±10%	
Power Outage Time	10ms	
Power Fuse	250V 3.15A	
Rush Current	<15A1ms / DC 24V	<45A1ms / DC 24V
Power Consumption	<30W(Not include the external power supply for modules)	<12W(Not include the external power supply for modules)

LX6V Coupler

LX6V-EM□-ECAT

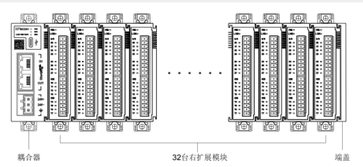
Remote I/O coupler

Based on EtherCAT bus technology
Diversified module types that are faster, more stable and more convenient.
Easily meet various system configurations



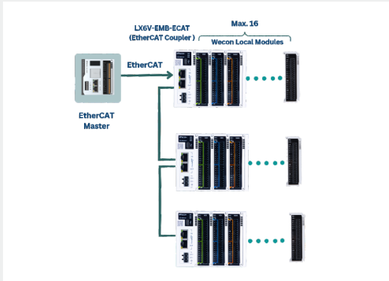
Flexible configuration & more expansion

- Support up to 32 expansion modules;
- The I/O configuration can be adjusted through the software, meeting the various requirements of different cases.



More precision and efficiency

- EtherCAT distributed I/O separates controllers and devices to achieve truly distributed control;



Easy installation

- Tool-free blade mounting;
- Compact structure is more stable;
- Small size and space-saving.

Superior performance

- High-speed bus microsecond response, speed up to 100Mbps;
- Support a large number of I/O node connections to meet high-speed data acquisition and precise control.

Specification

Universal Type

Model	LX6V-EMB-ECAT	LX6V-EMC-ECAT

Item	Specification parameter	
Maximum expansion module	16	32
Rated input voltage	DV 24V±10%，100mA（without expansion module）	
Communication interface	RJ45×2, EtherCAT communication protocol with 100Mbps performance; EtherCAT IN: EtherCAT input port; EtherCAT OUT: EtherCAT output port.	
Transmission distance	Length of communication line between two nodes≤100m	
Transmission medium	Category 5E (cat 5e) cable or above	
Single AP process data	Maximum input and output 1024 bytes	
Synchronous	Minimum 125us	
Allowable instantaneous power-off time	10ms	
Impulse current	≤45A (loaded with maximum module)	
Power protection	Anti-reverse connection protection; overcurrent protection; surge absorption	
Firmware upgrade	Support	
Usage environment	No corrosive, combustible gas, no large amount of conductive dust	
Environment temperature	Operating temperature: -20℃ to 55℃ Storage temperature: -40℃ to 70℃	
Environment humidity	Working humidity: 10% to 90%RH (No condensation) Storage humidity: ≤90%RH (No condensation)	
Altitude	0-2000m	
Installation	Installed on DIN46277 (Width: 35mm) rail by fastener	
Overall size	91.0*34.0*94.8mm	
Available module type	LX6 series expansion module	

Expansion Modules & BD Modules

LX3 Expansion Modules

LX3V Module		Specification	LX3V Module		Specification
I/O	LX3V-8EX/16EX	8 / 16*Digital Input	Temperature	LX3V-4PT	4 * Thermal Resistance Input
	LX3V-8EYR/16EYR	8 / 16 * Relay Output		LX3V-4TC	4 * Thermocouple Input
	LX3V-8EYT/16EYT	8 / 16 * Transistor Output		LX3V-4LTC	4 * TC with Isolation (PID Control)
Analog	LX3V-4AD	4 * Analog Input		LX3V-8iTC	8 thermocouple temperature module
	LX3V-4DA	4 * Analog Output	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.
Weighting	LX3V-1WT	1 * Weighting (24-bit)			
	LX3V-2WT	2 * Weighting (24-bit)			
	LX3V-1WT-L	1 * Weighting (18-bit)		LX3V-4PGB	Supports 4*200kHz high-speed pulse output. Supports T curve acceleration and deceleration. Supports single-speed positioning.
	LX3V-2WT-L	2 * Weighting (18-bit)			

LX6 Expansion Modules

LX6 series expansion module		Specification	LX6 series expansion module		LX6 series expansion module
I/O	LX6V-16EX/32EX	16/32 *Digital Input	Analog	LX6V-4AD	4 * Analog Input
	LX6V-16EYT/32EYT	16 /32 * Transistor Output（NPN）		LX6V-4DA	4 * Analog Output
	LX6V-16EYP/32EYP	16 /32 * Transistor Output（PNP）	Weighting*	LX6V-1WT *	1 * Weighting
	LX6V-0808EXYT	8 * Input，8 * Transistor Output（NPN）		LX6V-2WT *	2 * Weighting
	LX6V-0808EXYP	8 * Input，8 * Transistor Output（PNP）	Temperature*	LX6V-4TC *	4 * Thermocouple Input
	LX6V-1616EXYT	16 * Input，16 * Transistor Output (NPN)		LX6V-4PT *	4 * PT100 Input
	LX6V-1616EXYP	16 * Input，16 * Transistor Output (PNP)	Remote	LX6V-EMB-ECAT	EtherCAT coupler (support 16 * 6V module)
	LX6V-8HC	8 High Speed Input		LX6V-EMC-ECAT	EtherCAT coupler (support 32 * 6V module)
High Speed Pulse Output	LX6V-4PG *	4 pulse expansion（Supports 4*200kHz high-speed pulse output.）			

*: In developing

LCM Expansion Modules

LCM Module		Specification	LCM Module		Specification
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.

BD Modules

LX5V BD Modules

BD Module	Function	BD Module	Function
LX5V-8BYT-BD	8* Digital Output (Transistor NPN output)	LX5V-2RS485-BD	2 * RS485 Communication
LX5V-8BX-BD	8*Digital 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)		

LX3V BD Modules

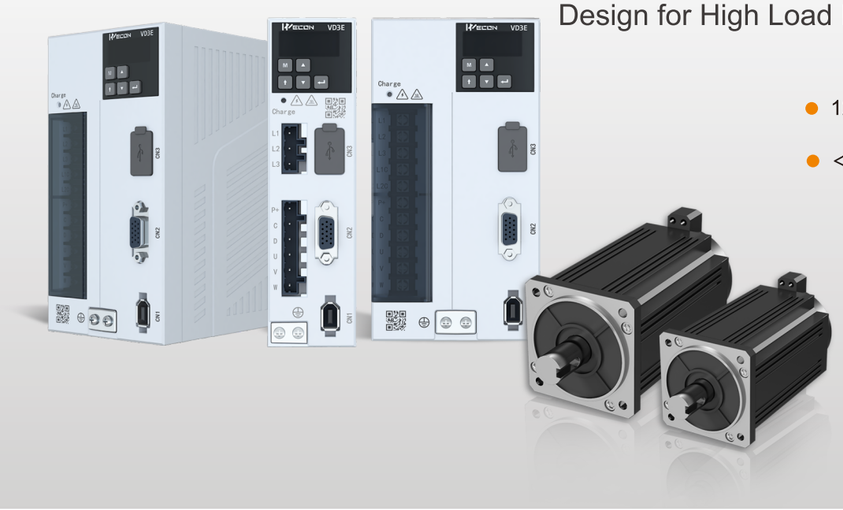
BD Module	Function	BD Module	Function
LX3V-2ADI2DAI-BD	2 * Analog Input/Analog Output(4~20mA)	LX3V-2PT-BD	2 * Thermal Resistance Input
LX3V-2TC2DAI-BD	2 * Thermocouple Input; 2 * Analog Output(4~20mA)	LX3V-2PT2ADV-BD	2 * Thermal Resistance Input; 2 * Analog Voltageinput(-10V-10V)
LX3V-2PT2DAI-BD	2 * Thermal Resistance Input; 2 * Analog Output(4~20mA)	LX3V-2PT2DAV-BD	2 * Thermal Resistancen Iput; 2 * Analog Voltage Output(-10V-10V)
LX3V-2TC-BD	2 * Thermocouple Input	LX3V-2ADV2DAV-BD	2 * AnalogInput/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℃		

WECON Servo Drives

VD3E EtherCAT Servo

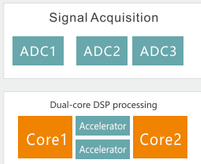
Design for High Load Environment

- 125μs sync period
- <1μs sync jitter



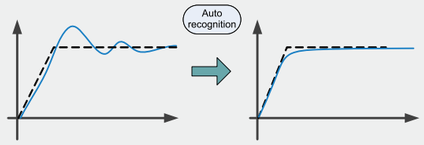
High Response

High performance CPU
Faster data reading
Faster calculation and sampling speed



Easy to Debug

Automatic load parameter tuning function



High Performance CPU

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

EtherCAT High-speed Bus Control

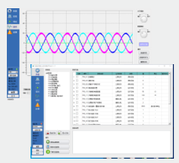
High Synchronization
Flexible Communication Connection
Flexible Networking

Strong Protection

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

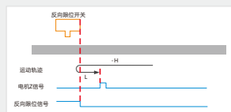
Personalise

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



Rich Features

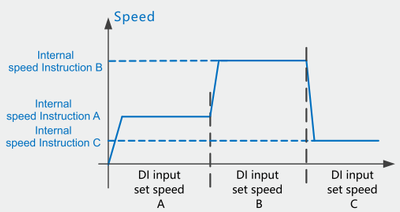
Parameter Self-tuning
Parameter Import and Export
Waveform Viewing and Storage
Vibration Suppression
Support Brake



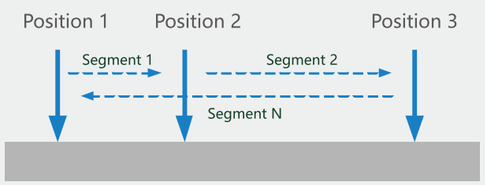
Multi-mode Control

Homing Mode(HM)
Cyclic Synchronous Position Mode (CSP)
Cyclic Synchronous Position Model (CST)
Cyclic Synchronous Velocity (CSV)
Profile Torque Mode (PT)

Support internal multi-speed instruction



Support internal multi-segment position instruction

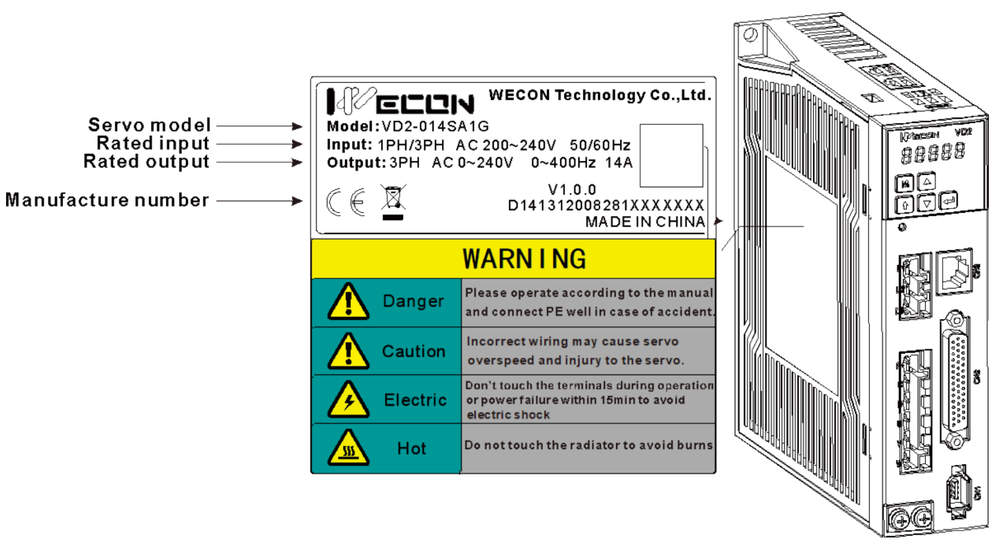


SERVO Naming Rules

Drive Naming Rules

VD2 021 S A1 G

Series	Maximum Current	Voltage	Encoder type	Function
VD2	003：3A	S：220V	E1：Incremental Encoder	P：Basic pulse control
VD2F	010：10A	T：380V	A1：Absolute Encoder	G：Universal (Pos,Torque, Speed)
VD2L	014：14A			H: High-speed DO
VD3E	016：16A			R: Support External PID function
VD5L	019：19A			D: Dynamic braking
	021：21A			
	025：25A			
	030：30A			
	050：50A			



Servo Drive Matching Table

Servo Drives

Control type	Voltage level	Series	Model	Support motor
Pulse type	220V	VD2F	VD2F-003SA1P	(0.1-0.2)kW
			VD2F-010SA1P	(0.2-0.4)kW
			VD2F-014SA1P	(0.6-0.75)kW Up to (0.85-1.0)kW
		VD2L	VD2L-010SA1P	(0.2-0.4)kW
			VD2L-014SA1P/D	(0.6-0.75)kW Up to (0.85-1.0)kW
		VD2 (Type A)	VD2-010SA1G/R/H	(0.2-0.4)kW
			VD2-014SA1G/R/H	(0.6-0.75)kW Up to (0.85-1.0)kW
		VD2 (Type B)	VD2-016SA1G/R/H	(0.85-1.5)kW
			VD2-019SA1G/R/H	(1.5-2.0)kW
			VD2-021SA1G/R/H	(2.0-2.5)kW
			VD2-025SA1G	(2.5-3.0)kW
			VD2-030SA1G	(3.0-4.0)kW
	380V		VD2-016TA1G	(0.85-1.5)kW
			VD2-019TA1G	(1.5-2.0)kW
			VD2-021TA1G	(2.0-3.0)kW
		VD2 (Type C)	VD2-030TA1G	(3.0-5.0)kW
			VD2-040TA1G	(5.0-6.0)kW
			VD2-050TA1G	(7.5)kW
EtherCAT type	220V	VD5L	VD5L-003SA1P	(0.1-0.2)kW
			VD5L-010SA1P	(0.2-0.4)kW
			VD5L-014SA1P	(0.6-0.75)kW Up to (0.85-1.0)kW
			VD5L-015SA1P	(0.6-0.75)kW Up to (0.85-1.0)kW
		VD3E (Type A)	VD3E-003SA1G	(0.1-0.2)kW
			VD3E-010SA1G	(0.2-0.4)kW
			VD3E-014SA1G	(0.6-0.75)kW Up to (0.85-1.0)kW
		VD3E (Type B)	VD3E-016SA1G	(0.85-1.5)kW
			VD3E-019SA1G	(1.5-2.0)kW
			VD3E-021SA1G	(2.0-2.5)kW
			VD3E-025SA1G	(2.5-3.0)kW
			VD3E-030SA1G	(3.0-4.0)kW
	380V		VD3E-016TA1G	(0.85-1.5)kW
			VD3E-019TA1G	(1.5-2.0)kW
			VD3E-021TA1G	(2.0-3.0)kW
		VD3E (Type C)	VD3E-030TA1G	(3.0-5.0)kW
			VD3E-040TA1G	(5.0-6.0)kW
			VD3E-050TA1G	(7.5)kW

VD3E Drive Specifications

EtherCAT Type			
Model	VD3E(A)	VD3E(B)	VD3E（C）

Item		VD3E（A）	VD3E（B）	VD3E（C）
Basic Specifications	Power Supply	220V	220V/380V	
	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		
	Braking Resistor	Built-in braking resistor, support external braking resistor		
General Function	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		
	Waveform Storage	computer The waveform acquisition frequency is 1KHz,and the original waveform data can be savedup to10s		
	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,torquelimit,speed limit,etc.		
	Brake	Support output control		
	Universal Control DI	faultand 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 than100M (the environment is good and the cable is good).		
	Frame Length	44 bytes~1498 bytes		
	Process Data	A single Ethernet frameis up to 1486 bytes.		
	Sync Jitter	<1us		
	Distributed Clock	64 bit		
	EEPROM Capacity	8kbit initialization data is written by the EtherCAT master station		
	Control Mode	CSP, HM, CSV, CST, PT		
	Sync Cycle	125μs		

VD5L Drive Specifications

EtherCAT Type	
Model	VD5L

Item		VD5L
Basic Specifications	Power Supply	AC 220V
	Control Method	IGBT PWM control sine wave current drive
	Encoder Feedback	17bit/23bit absolute encoder
	Control Signal Input	4 DI, select the input function according to the function code configuration
	Control Signal Output	3 DO, select the output function according to the function code configuration
	Communication	The Type-C interface can be used to set function code parameters, monitor status, and view waveform through SCTool. Parameter self-tuning, etc.
	Braking Resistor	Built-in braking resistor, supports external braking resistor
General Function	Automatic Parameter Tuning	Automatic load inertia identification, automatic rigidity self-tuning
	Waveform View	4 channels waveform monitoring
	Waveform Storage	The waveform acquisition frequency is 1KHz, and the original waveform data can be saved up to 10s
	Parameter Management	Support batch parameter import and export; Support SDO download
	Vibration Suppression	By setting the notch filter parameters
	Protection	Overvoltage, undervoltage, overcurrent, overspeed, overload, overheating, encoder failure, excessive position deviation, torque limit, speed limit, etc.
	Brake Device	Support brake signal output
	DI Function	Error/alarm clear(A-CLR), forward rotation prohibited(POT), backward rotation prohibited(NOT), emergency stop(E-STOP), touch probe
	DO Function	Servo ready(RDY), error signal(ALM), alarm signal(WARN), rotation detection(TGON), zero speed signal(ZSP), torque limit(T-LIMIT), speed limit(V- LIMIT), servo start(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	Less than 100M between two nodes(good environment, good cables)
	Frame Length	44 bytes~1498 bytes
	Process Data	Maximum size of a single Ethernet frame is 1486 bytes
	Sync Jitter	<1us
	Distributed Clock	64 bit
	EEPROM Capacity	8kbit initialization data is written by the EtherCAT master station
	Control Mode	CSP, CSV, CST, PT, HM
	Sync Cycle	125μs

VD2 Drive Specifications

Universal Type

Model	VD2(A)	VD2(B)	VD2(C)

Item			VD2 (A)	VD2 (B)	VD2 (C)
Basic Specifications	Power Supply		220V	220V/380V	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	SCTool 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 (INPOS1,INPOS2,INPOS3,INPOS4,ENINPOS)		
		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	VD2L

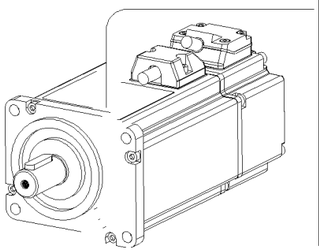
Item			VD2F	VD2L
Specifications	Power Supply		220V	
	Control Method		IGBT PWM controlled sine wave current drive	
	Encoder		17 bit, 23 bit absolute encoder	
	Input Signal		4*DI	
	Output Signal		4*DO	
	Pulse Frequency Division Output		—	Support
	Analog Signal Input		—	
	Pulse Signal Input		Open collector or differential input	
	Pulse Feedback Output		Z signal open collector output	ABZ phase pulse output or pulse+direction
	Internal Command		Support 8 segment internal speed command, 16 segment internal position command	
	Communication / Debug		Modbus RS485 and Modbus RS422 (SCTool)	Modbus RS485 and type-C (SCTool)
	Braking Resistor		750W built-in baking resistor; 400W without built-in baking resistor Both support external braking resistor	
Function Setting	General Function	Self-tuning	Automatic load inertia identification, automatic rigidity self-tuning	Automatic load inertia identification
		Mix Control	Support	—
		Advanced Control	Support	—
		Waveform	4 channels waveform monitoring, 10s waveform data recording	
		Parameter Management	Support batch parameter import and export	
		Vibration	Suppress mechanical vibration suppression	
		Protection	Overvoltage, undervoltage, overcurrent, overspeed, overload, overheating, encoder failure, excessive position deviation, torque limit, speed limit, etc	
		Dynamic braking	—	Optional
		Brake Device	Support brake signal output	
		DI Function	Servo enable(S-ON), Error/alarm clear(A-CLR), Forward rotation prohibited(POT) Backward rotation prohibited(NOT), Command direction(C-SIGN), Emergency stop(E-STOP) Gain switch(GAIN-5EL), Internal speed selection(INSPD1, INSPD2, INSPD3) Internal position selection and enable(INPOS1,INPOS2,INPOS3,INPOS4,ENINPOS)	
		DO Function	Servo ready(RDY), Error signal(ALM), Alarm signal(WARN), Rotation detection(TGON), Zero speed signal(ZSP), Torque limited(T-LIMIT), Velocity limited(V-LIMIT), Servo start(SRV-ST), Servo brake output(BRK-OFF), Z pulse feedback output	Servo ready(RDY), Error signal(ALM), Alarm signal(WARN), Rotation detection(TGON), Zero speed signal(ZSP), Torque limited(T-LIMIT), Velocity limited(V-LIMIT) Servo start(SRV-ST), Servo brake output(BRK-OFF), ABZ pulse feedback output
	Pulse Input	Pulse Frequency	Maximum 500khz	
		Pulse Type	Pulse + direction, orthogonal coding,	Pulse + direction, orthogonal coding
		Pulse Filtering	First-order low-pass filter or smooth filter	
		Pulse Output	—	A, B, Z differential output
	Speed Mode	Command Input	Internal command (Maximum 8)	
		Zero Clamp	Support	
		Torque Limit	Support torque limit under speed mode	
	Torque Mode	Command Input	Internal command	
		Torque Reaching	Torque reach signal output	
		Speed Limit	Velocity limit under speed mode	

Motor Naming Rules

WD 80 M 075 30 S A1F L2

Optional: 60/80 Flange connector type

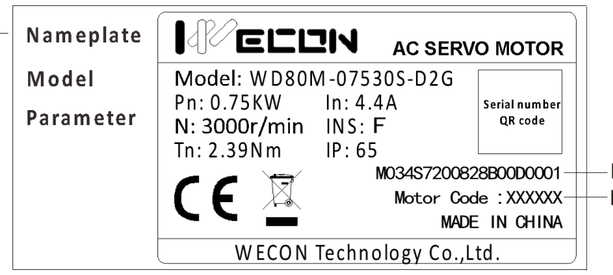
Series	Flange Size	Motor Inertia	Rated Power	Rated Speed	Voltage	Encoder Type	Motor Structure
WD:5-pole	40mm	L: Low inertia	010: 100W	15: 1500rpm	S: 220V	E1: 2500 Liner incremental optical encode	F: Oil sealed
WE:4-pole	60mm	M: Medium inertia	020: 200W	20: 2000rpm	T: 380V	A1: 17 bit single-turn Magnetic encoder	G: Oil sealed+Brake
	80mm	H: High inertia	040: 400W	25: 2500rpm		C1:17bit Multi-turn Magnetic encoder	B: Oil sealed
	110mm		073: 730W	30: 3000rpm		D2:23bit Multi-turn Optical encoder	C: Oil sealed+Brake
	130mm		075: 750W				
	180mm		100: 1KW				
			110: 1.1KW				
			120: 1.2KW				
			150: 1.5KW				
			180: 1.8KW				
			200: 2.0KW				
			230: 2.3KW				
			260: 2.6KW				
			⋮				
			750: 7.5KW				



Nameplate

Model

Parameter



Servo Motors

220V motor model	Flange (mm)	Power (kW)	Rated speed (rpm)	Rated torque(N*m)	Rated current (A)	Allowable overload multiple	Pole pairs	Inertia level
WD40M-01030S-□□□	40	0.1	3000	0.318	1.0	3.0	5	Middle
WD60M-02030S-□□□	60	0.2	3000	0.64	1.7	3.0	5	Middle
WD60M-04030S-□□□	60	0.4	3000	1.27	2.5	3.0	5	Middle
WD60M-06030S-□□□	60	0.6	3000	1.91	3.6	3.0	5	Middle
WD80M-07530S-□□□	80	0.75	3000	2.39	4.4	3.0	5	Middle
WD80M-10030S-□□□	80	1	3000	3.18	5.8	3.0	5	Middle
WD80M-10025S-□□□	80	1	2500	3.82	4.6	3.0	5	Middle
WD130M-10020S-□□□	130	1	2000	4.8	6.0	3.5	5	Middle
WD130M-08515S-□□□	130	0.85	1500	5.41	4.6	3.0	5	Middle
WD130M-15025S-□□□	130	1.5	2500	5.73	6.0	3.0	5	Middle
WD130M-15020S-□□□	130	1.5	2000	7.2	8.5	3.5	5	Middle
WD130M-13015S-□□□	130	1.3	1500	8.28	7.7	3.0	5	Middle
WD130M-20020S-□□□	130	2	2000	9.55	10	3.0	5	Middle
WD130M-26025S-□□□	130	2.6	2500	9.93	10.5	3.0	5	Middle
WD130M-18015S-□□□	130	1.8	1500	11.46	9.8	3.0	5	Middle
WD130M-38025S-□□□	130	3.8	2500	14.5	16	3.0	5	Middle
WD130M-23015S-□□□	130	2.3	1500	14.64	12.4	3.0	5	Middle

220V motor model	Flange (mm)	Power (kW)	Rated speed (rpm)	Rated torque (N*m)	Rated current (A)	Allowable overload multiple	Pole pairs	Inertia level
WD60H-02030S-□□□	60	0.2	3000	0.64	1.8	3.5	5	High
WD60H-04030S-□□□	60	0.4	3000	1.27	2.8	3.5	5	High
WD60H-06030S-□□□	60	0.6	3000	1.91	4.0	3.0	5	High
WD80H-07530S-□□□	80	0.75	3000	2.39	4.8	3.0	5	High
WD80H-10030S-□□□	80	1	3000	3.18	4.8	3.0	5	High
WD80H-10025S-□□□	80	1	2500	3.82	4.8	3.0	5	High
WD80H-10020S-□□□	80	1	2000	4.77	4.8	3.0	5	High
WD130H-15030S-□□□	130	1.5	3000	4.8	6.0	3.0	5	High

220V motor model	Flange (mm)	Power (kW)	Rated speed (rpm)	Rated torque (N*m)	Rated current (A)	Allowable overload multiple	Pole pairs	Inertia level
WE60M-04030S-□□□	60	0.4	3000	1.27	2.6	3.0	4	Middle
WE80M-07530S-□□□	80	0.75	3000	2.39	3.0	3.0	4	Middle
WE80M-10025S-□□□	80	1	2500	4.0	4.4	3.0	4	Middle
WE80M-11030S-□□□	80	1.1	3000	3.5	4.5	3.0	4	Middle
WE80M-12030S-□□□	80	1.2	3000	4.0	4.5	3.0	4	Middle
WE110M-12030S-□□□	110	1.2	3000	4.0	5.0	3.0	4	Middle
WE110M-15030S-□□□	110	1.5	3000	5.0	6.0	3.0	4	Middle
WE110M-18030S-□□□	110	1.8	3000	6.0	6.0	3.0	4	Middle
WE130M-10025S-□□□	130	1	2500	4.0	4.0	3.0	4	Middle
WE130M-13025S-□□□	130	1.3	2500	5.0	5.0	3.0	4	Middle
WE130M-15025S-□□□	130	1.5	2500	6.0	6.0	3.0	4	Middle
WE130M-20025S-□□□	130	2	2500	7.7	7.5	2.9	4	Middle
WE130M-15015S-□□□	130	1.5	1500	10	6.0	2.5	4	Middle
WE130M-26025S-□□□	130	2.6	2500	10	10	2.5	4	Middle
WE130M-23015S-□□□	130	2.3	1500	15	9.5	2.0	4	Middle
WE130M-38025S-□□□	130	3.8	2500	15	13.5	2.0	4	Middle

Servo Motors

380V motor model	Flange (mm)	Power (kW)	Rated speed (rpm)	Rated torque (N*m)	Rated current (A)	Allowable overload multiple	Pole pairs	Inertia level
WD130M-08515T-□□□	130	0.85	1500	5.41	3.1	3.0	5	Middle
WD130M-13015T-□□□	130	1.3	1500	8.28	5.1	3.0	5	Middle
WD130M-18015T-□□□	130	1.8	1500	11.46	6.3	3.0	5	Middle
WD130M-23015T-□□□	130	2.3	1500	14.64	8.5	3.0	5	Middle
WD180M-29015T-□□□	180	2.9	1500	18.6	11.8	3.0	5	Middle

380V motor model	Flange (mm)	Power (kW)	Rated speed (rpm)	Rated torque (N*m)	Rated current (A)	Allowable overload multiple	Pole pairs	Inertia level
WE130M-20025T-□□□	130	2.0	2500	7.7	7.5	2.8	4	Middle
WE130M-26025T-□□□	130	2.6	2500	10	6.0	2.5	4	Middle
WE130M-38025T-□□□	130	3.8	2500	15	8.8	2.0	4	Middle
WE130M-53030T-□□□	130	5.3	3000	17	11	2.0	4	Middle
WE130M-31015T-□□□	130	3.1	1500	20	11.5	2.5	4	Middle
WE130M-42020T-□□□	130	4.2	2000	20	8.5	2.0	4	Middle
WE180M-30015T-□□□	180	3.0	1500	19	7.5	2.5	4	Middle
WE180M-43015T-□□□	180	4.3	1500	27	10	2.5	4	Middle
WE180M-55015T-□□□	180	5.5	1500	35	12	2.0	4	Middle
WE180M-75015T-□□□	180	7.5	1500	48	20	2.0	4	Middle

Note: □□□ Not all motor models include the following categories

A1F : 17-bit single-turn absolute magnetic encoder without brake.

A1G : 17-bit single-turn absolute magnetic encoder with brake.

C1F : 17-bit multi-turn absolute magnetic encoder without brake

C1G : 17-bit multi-turn absolute magnetic encoder with brake.

D2F : 23-bit multi-turn absolute Optical encoder without brake.

D2G : 23-bit multi-turn absolute Optical encoder with brake.

Servo Cable Naming Rules

E - J1394 - R9M - 3M X7 - A1 - 2

① ② ③ ④ ⑤ ⑥ ⑦

① 4-core CPU
E:Encoder adapter cable

② Drive side connector
J1394:1394 connector
D15G:DB15 male connector

③ Motor side connector
R9M:9-core rectangular female connector
MC7S:7-core straight female connector
H28K7M:7-core 28mm aviation female connector
CM10:11-core 11mm aviation female connector
MC7P:7-core straight female connector (L2)
R15M:15-core rectangular female connector
H28J15M:15-core 28mm aviation female connector

④ Cable length
3M:3M
5M:5M
7M:7M
... ...

⑤ Number of cores
X5:5 cores
X7:7 cores

⑥ Wire size
A:0.2mm/0.14mm
A1:0.2mm/0.14mm with battery box
... ...

⑦ Others
1:Ordinary cable
2:High flex cable
.....

P - U3O1 - H28J4M - 5M X4 - C - 1

① ② ③ ④ ⑤ ⑥ ⑦

① Cable type
P:Power adapter cable/brake cable

② Drive side connector
Z3O1:3-core pin-type cold-pressed terminal and 1-core O-type cold-pressed terminal
Z3O3: 3-core pin-type cold-pressed terminal and 3-core O-type cold-pressed terminal
Z4O2:4-core pin-type cold-pressed terminal and 2-core O-type cold-pressed terminal
U3O1:3-core U-type cold-pressed terminal and 1-core O-type cold-pressed terminal
U3O3: 3-core U-type cold-pressed terminal and 3-core O-type cold-pressed terminal
Z6:6-core pin-type cold-pressed terminal
O2:2-core O-type cold-pressed terminal

③ Motor side connector
18A6:6-core 23mm aviation female connector
R4M:4-core rectangular female connector
MC4S: 4-core straight female connector
MC6S: 6-core straight female connector
H28J4M: 4-core 28mm aviation female connector
H32J4M: 4-core 32mm aviation female connector
R2M:2-core rectangular female connector
MC4H: 4-core H-type straight female connector
MC6H:6-core H-type straight female connector

④ Cable length
3M:3M
5M:5M
7M:7M
10M:10M
... ...

⑤ Number of cores
X2:2 cores
X4:4 cores
X6:6 cores
... ...

⑥ Wire size
D:0.5mm
E:0.75mm
B:1.0mm
F:1.5mm
C:2.5mm

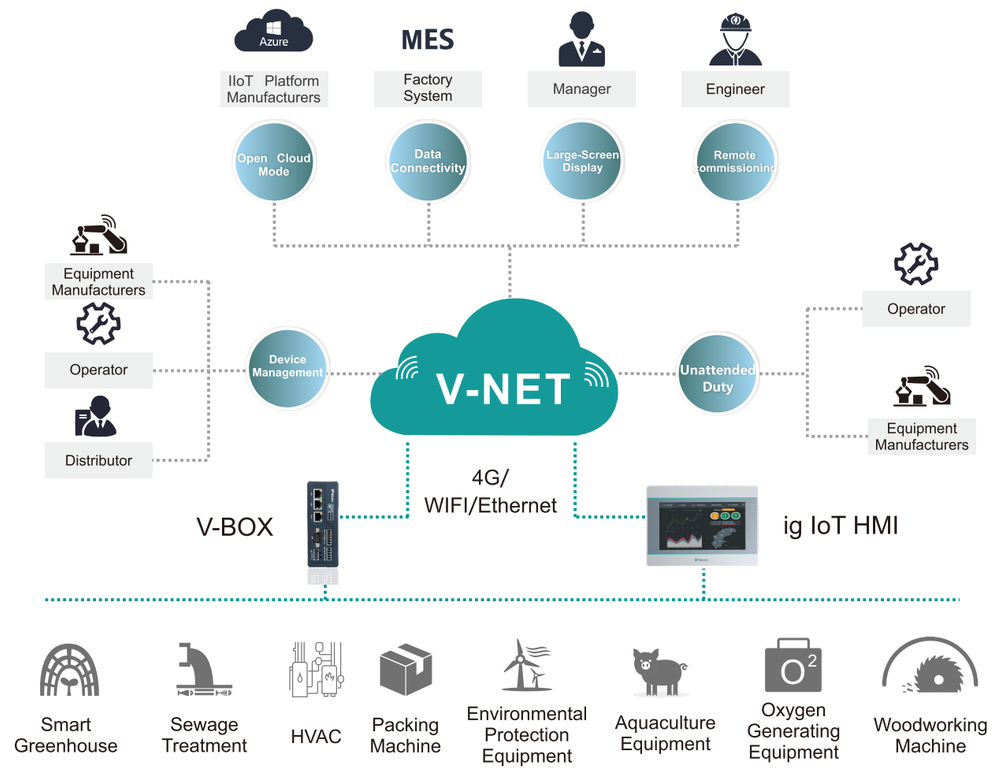
⑦ Others
1:Ordinary cable
2:High flex cable

Servo Cable Matching Table

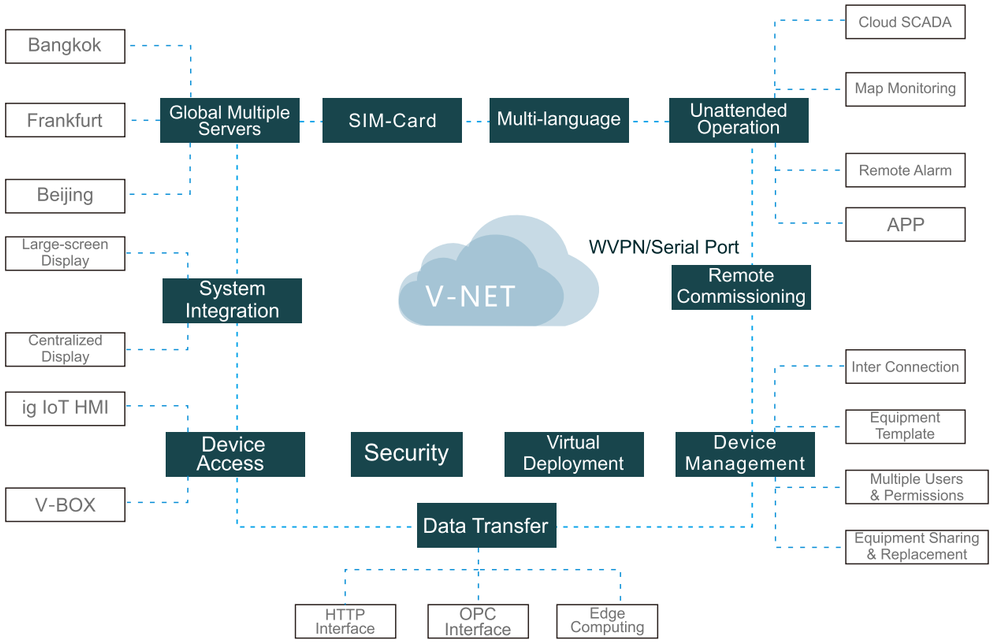
Motor model	Matching drive	Power cable/brake cable	Encoder cable
WD40M-○○○-□□□ WD60M-○○○-□□□ WD60H-○○○-□□□ WE60M-○○○-□□□ WD80M-○○○-□□□ WD80H-○○○-□□□ WE80M-○○○-□□□	VD2 / VD3E (A type)	Power cable: P-Z3O1-R4M-*MX4	Single-turn: E-J1394-R9M-*MX5-A
		Power cable: P-Z3O1-R4M-*MX4 Brake cable: P-O2-R2M-3MX2-D	
	VD2 / VD3E (B type) VD2 / VD3E (C type)	Power cable: P-U3O1-R4M-*MX4	
		Power cable: P-U3O1-R4M-*MX4 Brake cable: P-O2-R2M-3MX2-D	Multi-turn E-J1394-R9M-*MX7-A1
	VD2F/VD2L/VD5L	Power cable: P-Z4-R4M-*MX4	
		Power cable: P-Z4-R4M-*MX4 Brake cable: P-O2-R2M-3MX2-D	
WD60M-○○○-□□□-L WD80M-○○○-□□□-L	VD2 / VD3E (A type)	Without brake: P-Z3O1-MC4S-*MX4	Single-turn E-J1394-MC7S-*MX5-A
		With brake: P-Z3O3-MC6S-*MX6	
	VD2 / VD3E (B type) VD2 / VD3E (C type)	Without brake: P-U3O1-MC4S-*MX4	
		With brake: P-U3O3-MC6S-*MX6	Multi-turn E-J1394-MC7S-*MX7-A1
	VD2F / VD2L /VD5L	Without brake: P-Z4-MC4S-*MX4	
		With brake: P-Z4O2-MC6S-*MX6	
WD60M-○○○-□□□-L2 WD80M-○○○-□□□-L2	VD2 / VD3E (A type)	Without brake: P-Z3O1-MC4S-*MX4	Single-turn E-J1394-MC7P-*MX5-A
		With brake: P-Z3O3-MC6S-*MX6	
	VD2 / VD3E (B type) VD2 / VD3E (C type)	Without brake: P-U3O1-MC4S-*MX4	
		With brake: P-U3O3-MC6S-*MX6	Multi-turn E-J1394-MC7P-*MX7-A1
	VD2F/VD2L/VD5L	Without brake: P-Z4-MC4S-*MX4	
		With brake: P-Z4O2-MC6S-*MX6	
WD60H-○○○-□□□-L2 WD80H-○○○-□□□-L2	VD2 / VD3E (A type)	Without brake: P-Z3O1-MC4H-*MX4	Single-turn E-J1394-MC7P-*MX5-A
		With brake: P-Z3O3-MC6H-*MX6	
	VD2F/VD2L/VD5L	Without brake: P-Z4-MC4H-*MX4	Multi-turn E-J1394-MC7P-*MX7-A1
		With brake: P-Z4O2-MC6H-*MX6	
WE110M-○○○-□□□ WE130M-○○○-□□□	VD2 / VD3E (A type)	Power cable: P-Z3O1-H28J4M-*MX4	Single-turn E-J1394-H28K7M-*MX5-A
		Brake cable: No need	
	VD2 / VD3E (B type) VD2 / VD3E (C type)	Power cable: P-U3O1-H28J4M-*MX4	
		Brake cable: No need	Multi-turn E-J1394-H28K7M-*MX7-A1
	VD2F/VD2L/VD5L	Power cable: P-Z4-H28J4M-*MX4	
		Brake cable: No need	
WD130M-○○○-□□□ WD130H-○○○-□□□	VD2 / VD3E (A type)	Without brake: P-Z3O1-18A6-*MX4	Single-turn E-J1394-CM10-*MX5-A
		With brake: P-Z3O3-18A6-*MX6	
	VD2 / VD3E (B type) VD2 / VD3E (C type)	Without brake: P-U3O1-18A6-*MX4	
		With brake: P-U3O3-18A6-*MX6	Multi-turn E-J1394-CM10-*MX7-A1
	VD2F/VD2L/VD5L	Without brake: P-Z4-18A6-*MX4	
		With brake: P-Z4O2-18A6-*MX4	
WD130M-○○○-□□□-L2	VD2 / VD3E (A type)	Without brake: P-Z3O1-18A6-*MX4	Single-turn E-J1394-MC7P-*MX5-A
		With brake: P-Z3O3-18A6-*MX6	
	VD2 / VD3E (B type) VD2 / VD3E (C type)	Without brake: P-U3O1-18A6-*MX4	
		With brake: P-U3O3-18A6-*MX6	Multi-turn E-J1394-MC7P-*MX7-A1
	VD2F/VD2L/VD5L	Without brake: P-Z4-18A6-*MX4	
		With brake: P-Z4O2-18A6-*MX4	
WE180M-○○○ □-□□ WD180M-○○○ □-□□	VD2 / VD3E (B type) VD2 / D3E (C type)	Power cable: P-U3O1-H32J4M-*MX4	Single-turn E-J1394-H28K7M-*MX5-A
		Brake cable: No need	Multi-turn E-J1394-H28K7M-*MX7-A1

Note: ○○○ is corresponding to motor power, motor speed, voltage level respectively

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

V-BOX E Series Specifications

General			
Model		E-00	E-4G/E-4G-L
Item		Specifications	
CPU		ARM 9	
Storage	Flash	128MB	
	RAM	DDRII 64MB	
	SD Card	N/A	
I/O Ports	USB	OTG：USB HOST/USB DEVICE	
	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℃~70℃	
	Working Temperature	-10℃~60℃	
	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
Item		Specifications			
CPU		Cortex A7			
Storage	Flash	128MB			
	RAM	DDRIII 128MB			
I/O Ports	USB	HOST/DEVICE: USB OTG Switch			
	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)
	I/O	2 inputs with optocoupler isolation;2 relay outputs			
Power	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℃~70℃			
	Working Temperature	-10℃~60℃			
	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		N/A	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.

V-BOX RE Series Specifications

General

Model	RE-00	RE-4G

Item		Specifications	
CPU		High Performance CPU	
Storage	Flash	128MB	
	RAM	64MB	
	SD Card	N/A	
I/O Ports	USB	OTG：USB HOST / USB DEVICE	
	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	
	Weight（KG）	0.26	
Environment	Vibration Resistance	IEC61131-2 Standard	
	Storage Temperature	-20℃~70℃	
	Working Temperature	-10℃~60℃	
	Relative Humidity	10~90%RH（Non-condensing）	
CE Certification		CE Marked	
FCC Certification		FCC Class A Marked	
Real-time Monitoring Points		100	
Alarm Monitoring Points		20	
History Monitoring Points		50	
History Storage/Storage capacity		60 Days/1 Million	
Normal Pass-through		YES	
WVPN Pass-through		YES	
Edge Computing		YES	
API Interface		YES	
Off-line Transmission		YES	
GPS		N/A	LBS
Big Screen Monitoring		YES	

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 RH Series Specifications

General

Model	RH-00	RH-W	RH-G	RH-AG	RH-WG	RH-WG-LA

Item		Specifications					
CPU		High Performance CPU					
Storage	Flash	4GB					
	RAM	2GB					
	TF Card	YES					
I/O Ports	USB HOST	USB 2.0x2 (Non-isolated)					
	USB DEVICE	Type-C x 1 (Only supports downloading projects)					
	Serial Ports	COM1: RS232，RS422/RS485					
		COM2: RS485					
	Ethernet	2 * Ethernet Ports					
	WIFI Module	N/A	YES	N/A	N/A	YES	YES
	4G Module	N/A	N/A	YES	YES	YES	YES
Power	Power Supply	24V DC（12~28V DC）					
	Power Consumption	< 10W					
Dimension	Enclosure	Plastic+ABS (Polycarbonate)					
	Dimension（W*H*D）	125.0mm*93.7mm*51.0mm					
	Weight（KG）	0.30					
Environment	Vibration Resistance	IEC61131-2 Standard					
	Storage Temperature	-20℃~70℃					
	Working Temperature	-10℃~60℃					
	Relative Humidity	10~90%RH（Non-condensing）					
Beep		YES					
CE Certification		CE Marked					
FCC Certification		FCC Class A Marked					
Real-time Monitoring Points		300	500	500	300	1000	300
Alarm Monitoring Points		200	400	400	200	800	200
History Monitoring Points		100	200	200	100	400	100
History Storage/Storage capacity		60 Days/1 Million					
Normal Pass-through		YES					
WVPN Pass-through		YES					
Edge Computing		YES					
API Interface		YES					
Off-line Transmission		YES					
GPS		N/A					
Programming		PIStudio					
Big Screen Monitoring		YES					
HDMI Port		YES (HDMI*2.0*1)					

RH-G / WG / WG-L model frequency code

LTE FDD	LTE TDD
B1/B3/B5/B8	B34/B38/B39/B40/B41

RH-AG model frequency code

LTE FDD	LTE TDD	WCDMA	GSM(MHz)
B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28/B66	B34/B38/B39/B40/B41	B1/B2/B4/B5/B6/B8/B19	850/900/1800/1900

VC

Multifunctional Vector VFD

Single-phase 220V: 0.75-2.2kW

Three-phase 380V: 0.75-37kW

- Excellent control algorithm
- Support flexible expansion
- Wide voltage input
- Compatible with synchronous / asynchronous motor
- Compact structure design
- Rich application macro parameters

SPECIFICATION

Item		Pecification	
Controlled Characteristic	Control Mode	V/F	SVC
	Starting Torque	1Hz/100% Rated torque	0.5Hz/150% Rated torque
	Range of Speed Regulation	1:50	1：100
	Rotating Speed	≤1% Rated synchronous speed	≤0.5% Rated synchronous speed
	Carrier Frequency	0.6kHz~16kHz	
	Overload Capacity	150% Rated current 60s；180% Rated current 2s	
	Torque Boost	Automatic torque increase；Manual torque increase 0.1～30.0%	
I/O	The Range of Input Voltage	Single-phase 200V-240V；Three-phase 380V-480V Allowable fluctuation range：-15%～10%	
	The Range of Input Frequency	50/60Hz Allowable fluctuation range：±5%	
	The Range of Output Voltage	0～Input,Fluctuation range：＜5%	
	The Range of Output Frequency	SVC:0-500Hz V/F：0-1000Hz Fluctuation range：±5% of Maximum frequency	
Run Control	Run command channel	3 kinds of channels：Operation panel setting、Control terminal setting、Serial communication port given; Can change by different ways	
	frequency source	Digital setting, panel pulse potentiometer setting, linear voltage setting, curve voltage setting, analog current setting, serial communication setting, etc. Can be switched in a variety of ways	
	Auxiliary frequency source	Multiple auxiliary frequency sources. Frequency synthesis and frequency fine-tuning can be performed	
	Digital input terminal	There are four DI1-DI4, of which DI4 supports high-speed pulse input, up to 20kHz input, and supports NPN PNP switching	
	Analog input terminal	Two AI1-AI2 (You can change the terminal function to DI input by setting parameters) The AI2 can switch the current/voltage input through the jumper cap	
Basic Function	DC braking function	DC braking frequency:0.00 Hz ~ 60.00 Hz;Braking time:0.0 s ~ 60.0 s Braking action current value:0.0% ~ 150.0%	
	V/F curve	Linear, multi-point type, square type, 1.1-1.9 power curve, V/F completely separated type	
	Acceleration and deceleration curves	Linear or S-curve acceleration and deceleration mode, acceleration and deceleration time range：0~6500s	
	Multi-speed operation	Up to 16 segment speeds are achieved through the control terminal	
	External keyboard	Standard, can upload and downtransfer inverter function code information, to achieve fast parameter replication	
	Built-in PID	It is convenient to realize the closed-loop control system of process control	
	Automatic voltage adjustment AVR	Standard, automatic current and voltage limit during operation to prevent frequent overvoltage trip	
	Over voltage over loss rate control	Automatic current and voltage limit during operation to prevent frequent overvoltage trip	
	Fast current limiting function	The standard configuration minimizes overcurrent faults and protects the normal operation of the equipment	
	Torque qualification and control	Automatic torque limit during operation to prevent frequent overcurrent tripping	
	Power on the safety self-test of peripheral devices	It can realize the safety detection of peripheral devices such as grounding and short circuit	
	Timing control function	Timing control function: set time range 0h ～ 65000h	
	Defensive function	Power-on motor short circuit detection, input and output phase loss protection, over current protection, over voltage protection, under voltage protection, overheat protection, overload protection	
Display and Keyboard Operation	LED display	5 digit LED display	
	Parameter locking function	Set parameter read-only control to prevent misoperation	
Service Environment	Place of use	Indoor, free from direct sunlight, no dust, corrosive gas, flammable gas, oil mist, water vapor, dripping or salt	
	Altitude	Less than 1000m; When the sea level is higher than 1000m, the sea level must be reduced by 1% for every 100m rise. The maximum sea level is 2000m	
	Environment temperature	-20℃～45℃,Derating is required when the temperature exceeds 45℃. For every 1℃ increase in the ambient temperature, the derating is about 1%. The maximum ambient temperature is 50℃	
	Humidity	≤95%RH, Avoid condensation	
	Vibration	Vibration acceleration less than 0.6g	
	Storage temperature	-25℃～60℃	

PRODUCT ADVANTAGES

【Easy Maintenance】

The cooling fan can be removed independently without complicated operations.

【Independent Air Duct Design】

The entire series features an independent air duct design, enhancing product protection and preventing issues such as moisture and dust accumulation on the circuit boards.

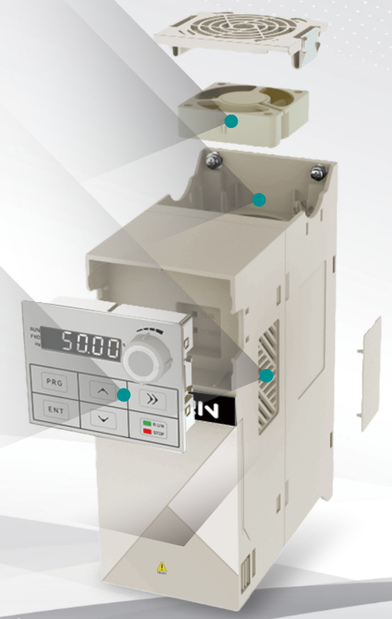
【Convenient and Easy to Use】

Standard with removable keyboard, can be equipped with control cabinet installation.

【High Efficiency Heat Dissipation】

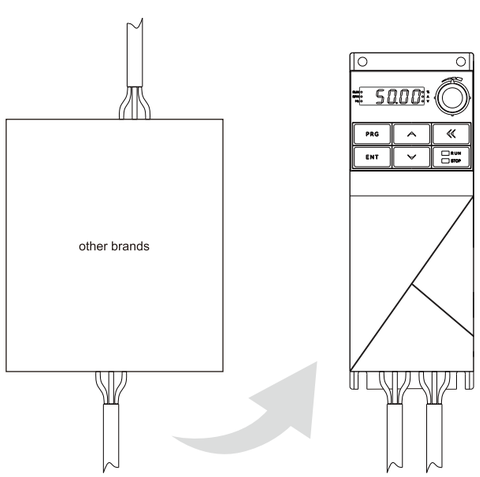
Side opening ventilation, radiator special design, can significantly improve the heat dissipation efficiency.

(additional side hole dust cover, flexible use)



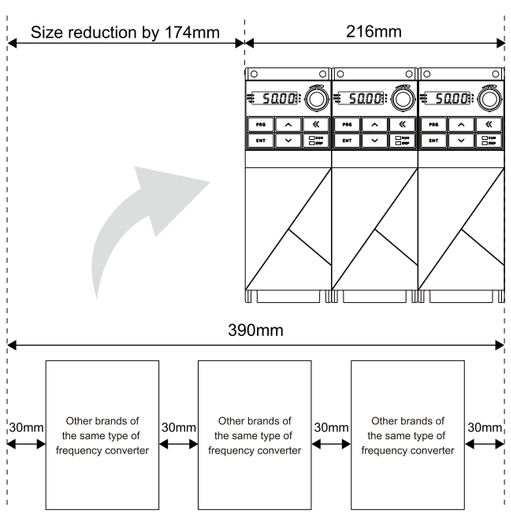
【Single Side Wiring】

Single-sided wiring is beneficial to the layout of internal components of the supporting control cabinet, making the installation location more flexible.



【Narrow-body Structure Appearance】

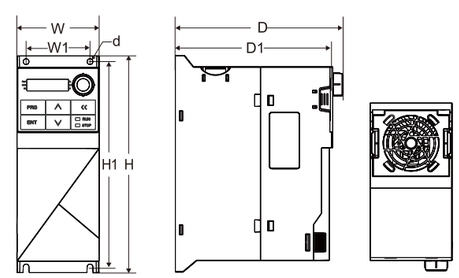
Realize compact product volume, support seamless side-by-side installation, reduce the volume by about 44% compared to traditional products.（4kW）



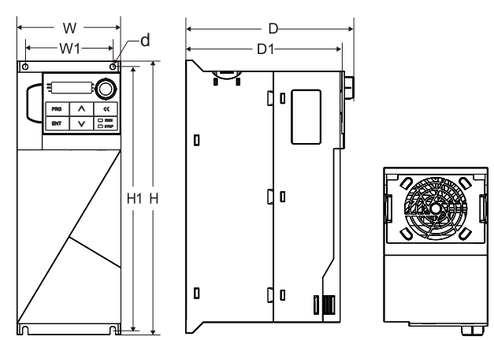
SELECTION GUIDE

Model	Rated power	Power capacity	Input current	Output current	Adaptive motor	
	kW	kVA	A	A	kW	HP
Input：Single-phase 200~240V & Output Three-phase 0~Input						
VC-2SR75B-E	0.75	1.5	8.2	4.5	0.75	1
VC-2S1R5B-E	1.5	3	14	7	1.5	2
VC-2S2R2B-E	2.2	4	23	9.6	2.2	3
Input：Three-phase 380~480V & Output Three-phase 0~Input						
VC-4TR75B-E	0.75	1.5	3.4	2.5	0.75	1
VC-4T1R5B-E	1.5	3	5	3.8	1.5	2
VC-4T2R2B-E	2.2	4	5.8	5.1	2.2	3
VC-4T004B-E	4	5.9	10.5	9	4	5.5
VC-4T5R5B-E	5.5	8.9	14.6	13	5.5	7.5
VC-4T7R5B-E	7.5	11	20.5	17	7.5	10
VC-4T011B-E	11	17	26	25	11	15
VC-4T015B-E	15	21	35	32	15	20
VC-4T018R5B-E	18.5	24	38.5	37	18.5	25
VC-4T022B-E	22	30	46.5	45	22	30
VC-4T030B-E	30	40	62	60	30	40
VC-4T037B-E	37	57	76	75	37	50

DIMENSION (UNIT: MM)



Model	External Dimension				Installation Dimension		Hole Size
	H	W	D	D1	H1	W1	d
VC-2SR75B-E	190	72	146	138	180	56	5
VC-2S1R5B-E							
VC-2S2R2B-E							
VC-4TR75B-E	190	72	146	138	180	56	5
VC-4T1R5B-E							
VC-4T2R2B-E							
VC-4T004B-E							



Model	External Dimension				Installation Dimension		Hole Size
	H	W	D	D1	H1	W1	d
VC-4T5R5B-E	250	95	153.6	145	240	80	5
VC-4T7R5B-E							
VC-4T011B-E	334	120	188.6	180	322	100	6
VC-4T015B-E							
VC-4T018R5B-E	388	145	195.1	182.7	374	116	6
VC-4T022B-E							
VC-4T030B-E	450	180	204	195	430	144	7
VC-4T037B-E							

VB

High Performance Vector Frequency Converter

Single-phase 220V : 0.75~2.2kW
Three-phase 220V : 0.75~15kW
Three-phase 380V : 0.75~400kW

- Wide power range
  Dual voltage optional
- Multi-dimensional protection
  Safe and reliable
- Cabinet installation
  Strong heat dissipation capacity
- Compatible with synchronous motor & asynchronous motor
- Random carrier function
  Quiet and efficient
- Multi-type I/O function
  Fexible control

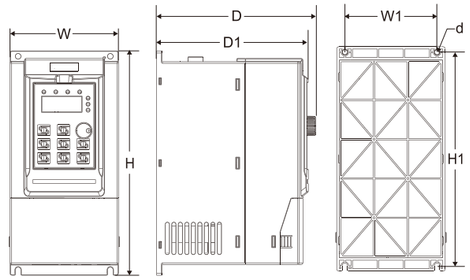
Specification Parameter

Item		Description	
Control Characteristics	Control Mode	Sensorless vector control (SVC)	V/F Control
	Starting Torque	0.5Hz/150%	0.5Hz/100%
	Speed Adjustment Range	1：100	1：50
	Speed Holding Precision	±0.5%	±1%
	Carrier Frequency	0.5kHz ~ 16kHz；The carrier frequency can be automatically adjusted according to the load characteristics	
	Overload Capacity	G type: 150% rated current for 60s; 180% rated current for 1s P type: 120% rated current for 60s; 150% rated current for 1s	
	Torque Compensation	Automatic: 0.0%; Manual : 0.1%-30.0%	
Operation Control	Input Voltage Range	220V; fluctuation range: 220V(-15%)~220V(+15%);380V/415V/440V; fluctuation range: 380V(-15%)~440V(+10%)	
	Input Frequency Range	50/60Hz；fluctuation range：±5%	
	Output Voltage Range	0- input voltage，Error limit 5%	
	Output Frequency Range	SVC：0-320Hz；V/F：0-1000Hz	
	Command Running Channel	Three kinds of channels: 1. Operation keyboard 2.Control terminal 3.Serial communication port, switchable by many ways	
	Frequency Source	Digital setting, Potentiometer of operation board, Analog Voltage Signal, Analog Current Signal, Communication port settin, switchable by many ways	
	Auxiliary Frequency Source	Multiple auxiliary frequency source, capable of frequency synthesis and frequency trimming	
	Input Terminals	◆ 6 Digital Input Terminals ◆ 2 Analot Input Terminals	
	Output Terminals	◆ 1 Open Collector Output Terminals；◆ 2 Relay Output Terminals ◆ 2 Analog Output Terminals（Model with a power of less than 7.5kW only have one）	
Basic Functions	DC Braking	Braking time：0.0s ~ 100.0s，Braking current value：0.0% ~ 100.0%	
	V/F Curve	Three types：linear, multipoint, square V/F curve	
	Acceleration and Deceleration Curve	Linear mode and S curve acceleration and deceleration mode; 4 groups of acceleration and deceleration time; the range of acceleration and deceleration time0.0~6500.0S	
	Simple PLC, Multi-speed Control	Up to 16 steps speed can be realized by integrated sjimple PLC and control terminals function	
	Integrated PID	Closed-loop control system	
	AVR Function	When grid voltage changes, it keeps output voltage constant automatically	
	Control of Overvoltage, Overcurrent, Speed Stall	The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to overvoltage/overcurrent	
	Rapid Current Limit	Decrease overcurrent at max, protect VFD to operate regularly	
	Torque Limit and Control	Limit the torque automatically and prevent frequent over current trippingduring the running process	
	Power peripheral and Safety Self-checking	To realize self checking of peripheral equipment at power on, such as grounding fault, short circuit fault, etc	
	Timing Control	Timing control range:0h~65535h	
	Protection Functions	Motor short-circuit detection at power-on, input/output phase loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheat protection and overload protection etc	
Display and Panel Operation	LED Display	5 bits LED Display	
	Parameter Lock	Define whether the parameter is locked in running or stopped state in case of misoperation	
	MF.K Key	Programmable: Command channel switching / forward rotation and reverse rotation / JOG function selection / menu mode switching	
Application Environment	Operation Place	Indoor, free from direct sunlight, no dust, no corrosive gas, no combustible gas, no oil smoke, no vapor, no drip or salt.	
	Altitude	Lower than 1000m. Service in derated capacity when above 1000m. Derate 1% capacity every 100m increase in height.	
	Ambient Temperature	-10°C~+40°C,A33Service in derated capacity when temperature higher than 40℃. Derate 1% capacity every 1℃ increase in temperature.And the maximum environmental temperature is 50 ℃.	
	Humidity	≤ 95%RH, no water condensatainon	
	Vibration	< 5.9m/s² (0.6G)	
	Storage Temperature	-25℃ ~ +60℃	

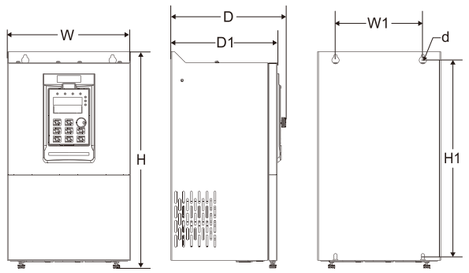
SELECTION GUIDE

Specification Model	Power	Power Capacity	Input Current	Output Current	Adapted Motor	
	kW	kVA	A	A	kW	HP
Single phase input 220V and three-phase output 0-220V						
VB-2SR75GB	0.75	1.5	8.2	4.5	0.75	1
VB-2S1R5GB	1.5	3	14	7	1.5	2
VB-2S2R2GB	2.2	4	23	9.6	2.2	3
Three phase input 220V and three-phase output 0-220V						
VB-2TR75GB	0.75	1.5	5	3.8	0.75	1
VB-2T1R5GB	1.5	3	5.8	5.1	1.5	2
VB-2T2R2GB	2.2	4	10.5	9	2.2	3
VB-2T004GB	4	5.9	14.6	13	4	5.5
VB-2T5R5GB	5.5	8.9	26	25	5.5	7.5
VB-2T7R5GB	7.5	11	35	32	7.5	10
VB-2T011GB	11	17	46.5	45	11	15
VB-2T015G	15	21	62	60	15	20
Three phase input 380V and three-phase output 0-380V						
VB-4TR75GB	0.75	1.5	3.4	2.5	0.75	1
VB-4T1R5GB	1.5	3	5	3.8	1.5	2
VB-4T2R2GB	2.2	4	5.8	5.1	2.2	3
VB-4T004GB/5R5PB	4/5.5	5.9/8.9	10.5/14.6	9/13	4/5.5	5.5/7.5
VB-4T5R5GB/7R5PB	5.5/7.5	8.9/11	14.6/20.5	13/17	5.5/7.5	7.5/10
VB-4T7R5GB	7.5	11	20.5	17	7.5	10
VB-4T011GB/015PB	11/15	17/21	26/35	25/32	11/15	15/20
VB-4T015GB/018R5PB	15/18.5	21/24	35/38.5	32/37	15/18.5	20/25
VB-4T018R5GB/022PB	18.5/22	24/30	38.5/46	37/45	18.5/22	25/30
VB-4T022GB/030PB	22/30	30/40	46.5/62	45/60	22/30	30/40
VB-4T030G/037P	30/37	40/57	62/76	60/75	30/37	40/50
VB-4T037G/045P	37/45	57/69	76/92	75/91	37/45	50/60
VB-4T045G/055P	45/55	69/85	92/113	91/110	45/55	60/70
VB-4T055G/075P	55/75	85/114	113/157	112/150	55/75	70/100
VB-4T075G/093P	75/93	114/134	157/180	150/170	75/93	100/125
VB-4T093G/110P	93/110	134/160	180/214	170/210	93/110	125/150
VB-4T110G/132P	110/132	160/192	214/256	210/253	110/132	150/180
VB-4T132G/160P	132/160	192/231	256/307	253/304	132/160	180/220
VB-4T160G/185P	160/185	231/245	307/345	304/340	160/185	220/250
VB-4T185G/200P	185/200	245/260	345/385	340/377	185/220	250/275
VB-4T200G/220P	200/220	260/280	385/430	377/426	200/220	275/300
VB-4T220G/250P	220/250	280/355	430/468	426/465	220/250	300/340
VB-4T250G/280P	250/280	355/396	468/525	465/520	250/280	340/380
VB-4T280G/315P	280/315	396/445	525/590	520/585	280/315	380/430
VB-4T315G/355P	315/355	445/500	590/665	585/650	315/355	430/480
VB-4T355G/400P	355/400	500/565	665/785	650/725	355/400	480/545
VB-4T400G	400	565	785	725	400	545

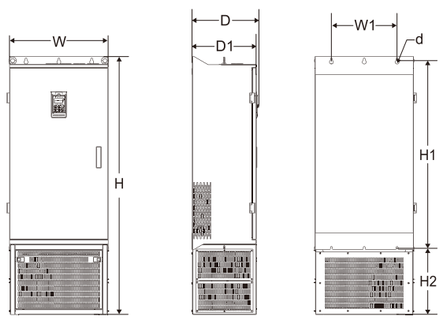
DIMENSION (UNIT: MM)



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



Model	Outline size				Installation dimension		Opening size
	H	W	D	H1	H1	W1	d
VB-2T5R5GB	348	182	211	196	331	156	6
VB-2T7R5GB							
VB-4T011GB/015PB							
VB-4T015GB/018R5PB							
VB-2T011GB	373	220	205	190	356	156	6
VB-4T018R5GB/022PB							
VB-4T022GB/030PB							
VB-2T015G	435	256	222	208	419	170	6
VB-4T030G/037P							
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							



Note: H2 is the base height, the 132-185kW base is not standard, and the 200-400KW base is standard.

Model	Outline size					Installation dimension		Opening size
	H	H2	W	D	D1	H1	W1	d
VB-4T132G/160P	1199	350	502	355	342	842	320	10
VB-4T160G/185P								
VB-4T185G/200P								
VB-4T200G/220P	1570	426	600	408	398	1147	400	12
VB-4T220G/250P								
VB-4T250G/280P								
VB-4T280G/315P								
VB-4T315G/355P	1696	426	800	408	398	1266	520	12
VB-4T355G/400P								
VB-4T400G								

Single-phase 220V：0.75~2.2kW
Three-phase 380V：0.75~7.5kW

- Compact in size
- Better protection function
- Professional motor drive Superior performance
- Simple installation Convenient speed regulation
- Compatible with synchronous Motor & asynchronous motor
- The product is safer to use

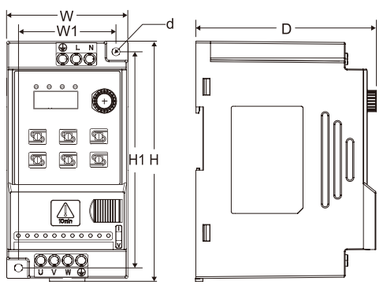
Specification Parameter

Item		Description
Control characteristic	Control mode	V/F control
	Output frequency range	0~1000Hz
	Starting torque	0.5Hz/130%
	Carrier frequency	0.6~15.0kHz
	Overload capacity	150% rated current 60s, 180% rated current 1s
	Torque lift	Automatic torque lift/manual torque lift 0.1 ~ 30.0%
I/O terminals	Analog input	1 way
	Digital input	4 way
	Analog output	1 way
	Relay output	2.2kW (including) models below 1 normal open; For 4kW or more models, 1 channel is normally open and 1 channel is normally closed
	RS485 communication terminal	1 Integrated in the RJ45 cable port
	10V power terminal	1 way
	24V power terminal	1 way
Basic functions	Run command channel	Three channels: set operation panel, control terminal, and RS485 communication control, which can be switched in various ways
	Frequency source	Digital set, panel potentiometer set, analog voltage set, analog current set, RS485 communication set, PID control set, switchable by many ways
	DC braking function	DC braking frequency: 0-50Hz, braking time: 0-60s Braking action current value: 0-150%
	V/F curve	Linear; 1.1-1.9 power; Square type; Customize V/F curves
	Simple PLC, multi-speed control	Up to 15 speed to achieve simple PLC operation
	Integrated PID	It is convenient to realize process control closed-loop control system
	Protection function	Input/output phase loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheat protection, overload protection, power-on short circuit detection etc
	LED display	5-bit LED display
	Parameter locking function	The parameter read-only function can be set to prevent misoperations
	Automatic voltage adjustment AVR function	When the grid voltage changes, the output voltage can be kept constant automatically
Application environment	Operetion place	Indoor, free from direct sunlight, no dust, no corrosive gas, no combustible gas, no oil mist, no water mist, no drip or salt,etc.
	Altitude	Lower than 1000m. Service in derated capacity when above 1000m. Derate 1% capacity every 100m increase in height.
	Ambient temperature	-10 °C to +50 °C (If the ambient temperature is 40°C to 50 °C, please reduce the amount to use)
	Humidity	≤ 95%RH, no water condensation
	Vibration	< 5.9m/s² (0.6G)
	Storage temperature	-25℃ ~ 60℃
	Protection class	IP20

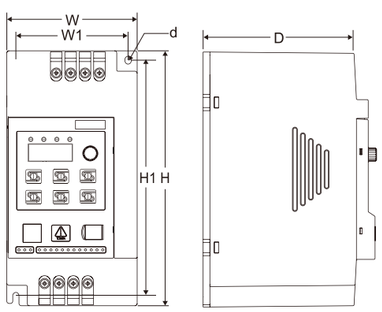
SELECTION GUIDE

Model	Rated Power	Power capacity	Input current	Output current	Motor G/P	
	kW	kVA	A	A	kW	HP
Single 220V input three-phase 0-220V output						
VM-2SR75	0.75	1.5	8.2	4	0.75	1
VM-2S1R5	1.5	3	14	7	1.5	2
VM-2S2R2	2.2	4	23	9.6	2.2	3
Three 380V output three-phase0-380V output						
VM-4TR75	0.75	1.5	3.4	2.5	0.75	1
VM-4T1R5	1.5	3	5	3.8	1.5	2
VM-4T2R2	2.2	4	5.8	5.1	2.2	3
VM-4T004	4	5.9	10.5	9	4	5.5
VM-4T5R5	5.5	8.9	14.6	13	5.5	7.5
VM-4T7R5	7.5	11	20	17	7.5	10

DIMENSION (UNIT: MM)



Model	Outline size			Installation dimension		Opening size
	H	W	D	H1	W1	d
VM-2SR75	142	72	116	130	59	5
VM-2S1R5						
VM-2S2R2						
VM-4TR75						
VM-4T1R5						
VM-4T2R2						



Model	Outline size			Installation dimension		Opening size
	H	W	D	H1	W1	d
VM-4T004	196	95	132	179	79	5.5
VM-4T5R5	225	115	154	208	99	5.5
VM-4T7R5						

VM Application

VM Series Inverter could be used in Packaging Machinery, Wood Machinery, Food Machinery, Conveying Machinery, Printing Machinery, Fan, Small Water Pump and so on.