

SIMATIC S7-1200

It's the interplay that makes the difference



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Innovations – with firmware V2.0 & V3.0

SIMATIC S7-1200 (V2.0)

1 GPRS

GPRS

Machine-to-machine control schemes over cellular network

Easy implementation of remote machine data acquisition

Fault annunciation via SMS

Teleservice

Centralized, remote configuration, programming and diagnostics

Remote process code updates

Modem, R5-232, ISDN, GSM, GPRS, and Ethernet available

Easy remote monitoring and control through GPRS architecture
 Monitoring and control for up to 5,000 stations
 Local buffering of data

(2) AS-i Master

AS-i Master

Master acc. to AS-i Spec. 3.0

Up to 62 AS-i Slaves or 992 I/Os

AS-i Power24V-capable (separate DCM)

③ PROFIBUS Master and Slave

DP Master for Distributed I/O and Drives architectures
DP Slave for integration into existing plant network

PROFINET
 Higher Level System interface
 RT Master for I/O and Drives
 No module required

Webserver

Display of process values and diagnostics on standard web page
User-defined web page via HTML
Only requires IP address

Datalogging
■ User-defined runtime data values as CSV file in continuous logs
■ Easy export via web page

PID controller

■ 3-Step instructions for valve's or actuator's positioning

SIMATIC S7-1200 (V3.0)

STMATIC S7-1200 (V3.0)

57-1215C; 3 Types: DCDC/DC; ACI
DCRLY; DCDC/RLY = 130 mm Width

2 PN Ports = for two connections
to HMI, IO or programming
Battery Board = one year internal
clock time with V3 CPUs

1 100 KB working memory = larger
program process area

4 MB load memory = larger data
storage area

85 ns bit performance

Firmware update via PN port
with V3 CPUs

2 AII2 AO = integrated on CPU

16 HSC (High-speed counters) = 3 at
100 kHz and 3 at 30 kHz clock rate

4 PTO/PWMs = 100 kHz onboard
outputs or 200 kHz with signal
board

outputs or 200 kms man again board

Extended internal clock retention time – upwards of 20 days typical

Extended CPU temp rating – for hotter and colder applications







WECON HMI&PLC PRODUCTS CATALOG | WEON INVERPLC PRODUCTS CATALOG | PRODUCTS CATALOG



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EVI8108

[NEW HMI SYSTEM] ----High calculate speed ----Large memory system
----Advanced application field





Features

• 720MHZ: High calculate speed • 512MB : Large memory HMI system

•>=128MB: Flash Storage system • Support WINCE7.0, LINUX, ANDRIOD .etc OS

⇒ YYLY

Intelligence live application:used in hotels, villa, automatic control, support WINCE and LINUX OS, high-end hardware platform can support rich software applications.

Industrial PAC computer:according to LEV18108, support the configuration software, can adapt all kinds of complex industrial environment like strong acid, strong alkali, humidity, high dust etc.

Large production line: through the Ethernet or wireless Ethernet communicate performance, combined with our company developed the centralized monitoring system, support centralized monitoring, data centralized processing.

Hardware

Display Capabilities:		External Interface:		
Size	10.2 inch	COM1	RS232, RS485/RS422	
Color	65536 colors	COM2	RS232, RS485	
Resolution	800*480	COM3	RS485	
Display size	222, 72(w) x 125, 28(H) mm	USB HOST	Standand(High-Speed, Full-Speed)	
Intensity	though LEVI to control	USB DEVICE	Standand(High-Speed, Full-Speed)	
Specification	ns:	Ethernet	10Mbps/100Mbps/1000Mbps selfadapt	
CPU	cortex A8 max720Mhz	CAN	Isolate CAN interface	
DDR	DDR3 512MB	Ex-Memory	Standand SD-card	
Memory	SLC FLASH 256MB	Audio	Mic, Stereo, built-in speaker(optional)	
Power	<10W	EEPROM:	max256Kbit (optional)	

ECONTECHNOLOGY 02



- Use mature SoC Scheme, Relible Scheme is the base of quality.
- . Adopt High quality parts and quality control procedures, Make high-quality HMI.
- . Simple inner Struture. Wiring convenient and reliable.

Simple, easily use

- Compatible with other PLC programming software, LAD program can be used directly.
- · Wiring convenient, Simple operation.
- Support online Simulation test.

- Research and development HMI successful experience and mature channel let we have lower cost.
- Provide independent brand of HMI + PLC full solutions, More competitive.
- Good pre-sale service can Save more time .

- Customise Special control equipment and solutions.
- · Professional service team.timely service reduce the cost.
- . Free offer mature solution in all kinds of industry , improve the pre-sale efficiency.

PLC Function

MAX 200K HSPPO

Two ndependent path, the max HSPPO is 200k SupportPWM and Trapezoid acceleration and deceleration



- Auxiliary Relay:512-point
- · Counter:53-point
- Data register:256-point
- Status Register:128-point

RTC(Real-time Clock)

· Support RTC,keep more than 3 years when power-off

Support MODBUS

- · Support MODBUS RTU MASTER/SLAVE
- · Can communicate with inverter Modbus or FX Protocol PLC







PLC PRODUCTS

Rich extended function

- · Support extended IO&Analog quantity module
- Support extendedCommunite&Temper module
- · Support extended module max8(except IO)



- Hardware counting:2-path Max200KHz, 1-path AB phase
- Software counting: 2-path100K, 4-path10K, Total pulse 200Kh Apply instruction: 1us/ins Support 2path AB phase

Interrupt Function

Outer, Timter, Counter Interupter Can make special operate when interupter

- X0~X5 6path input can use as Outer Interupter
- 3 indie Timter interupt
- 6 indie Counter interupt

Programming Ability

- · Rich PLC instruction,compatible with brand PLC
- Support off-line simulation, online simulation test
- Support program encryption, protect intellectual rights

High-speed Operating

- · Basic instruction: 0.1us/ins



BD Board Products List

BD Board	Description
LX3V-2ADDA-BD	2 channels analog input (4~20mA),2 channel analog output(4~20mA)
LX3V-2PTDA-BD	2 channels thermal resistance input, 2 channel analog output (4~20mA)
LX3V-2TCDA-BD	2 channels thermocouple input, 2 channel analog output(4~20mA)
LX3V-2AD-BD	2 channels analog input (4~20mA)
LX3V-2DA-BD	2 channels analog output (4~20mA)
LX3V-2PT-BD	2 channels thermocouple input
LX3V-2TC-BD	2 channels thermal resistance input
LX3V-485-2BD	Extended COM port (RS485)
LX3V-CAN-BD	Extended CAN function
LX3V-ETH-BD	Extended Ethernet port

PLC Expansion Module Products List

Module	Description	Module	Description
LX3V-8EX	8 input terminals (X)	LX3V-4AD	4 channels analog input
LX3V-8EYR	8 relay output terminals(Y)	LX3V-4DA	4 channels analog output
LX3V-8EYT	8 transistor output terminals(Y)	LX3V-2AD	2 channels analog input
LX3V-16EX	16 input terminals (X)	LX3V-2DA	2 channels analog output
LX3V-16EYR	16 relay output terminals(Y)	LX3V-4PT	4 channels thermocouple input
LX3V-16EYT	16 transistor output terminals(Y)	LX3V-4TC	4 channels thermal resistance input
LX3V-1WT	1 channel weighing signal input	LX3V-2PT	2 channels thermocouple input
LX3V-2WT	2 channels weighing signal	LX3V-2TC	2 channels thermal resistance input
LX3V-1PG	1 channel high speed pulse output	LX3V-1PSU	Extended power supply module
LX3V-4LC	4 channel temperature control	-	=

PLC Specification

Item	LX1S Series PLC	LX3V Series PLC	
Run Mode	Scan round / Interrupt		
Programming	Instruction List / Ladder		
T-1-111	Basic instructions: 27		
Total Instructions	Applied instruction: 136+2		

PLC Specification

ltem	LX1S Series PLC	LX3V Series PLC		
	Basic instructions:0.06us			
Used time	Applied instruction: 1~10us			
Program capacity	2K	16K		
X Input terminals(Octal)	16 points,X0~X17	256 points,Y0~Y377		
Y: Output terminals(Octal)	14 points (Y0~Y15)	256 points (Y0~Y377)		
M: Intermediate register	512 points (M0~Y511) 256 points (M8000~M8255)	3072 points (M0~M3071) 256 points (M8000~M8255)		
S: State register	128 points (S0~S127) 10 points (S0~S9) 10 points (S10~S19)	1000 points (S0~S999) 10 points (S10~S19) 100 points (S900~S999)		
	32 points (T0~T31)	200 points (T0~T199) 6 points (T250~T255,accumulated)		
T: Timer	31 points (T32~T62)	46 points (T200~T245)		
	1 points (T62)	4 points (T246~T249,accumulated		
	32 points (C0~C31)	200 points (C0~C199)		
C:Counter	-	335 points (C200~C234)		
	21 points (C235~C255)	21 points (C235~C255)		
D:Data register	256 points (D0~D255) 2000 points (D1000~D2999) 256 points (D8000~D8255) 8000 points (D0~D75 256 points (D8000~D8			
V:Indexed addressing register	8 point	s (V0~V7)		
Z:Indexed addressing register	8 point	s (Z0~Z7)		
High speed pulse output	2 channels ,200KHz for each channel (Y1,Y2)			
External interrupt	6 points (X0~X5), rising /	failing edge pulse supported		
High speed counter interrupt	6 g	points		
Timer interrupt	3 (points		
Power down save	-	Set by programming software		
Storage device	FL	ASH		
Digital filtering	Provide digital filterin	g for all X input terminals		
	COM1: RS422	COM1: Rs422 or RS485		
Serial communication	COM2: RS485(Optional)	COM2: RS485		
	-	CAN/Ethernet/RS485 (Optional)		
Download / Monitor	Serial programming cable	Mini USB cable Serial programming cable		

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Input / Output Specification

Item		Relay Type	Transistor Type	
Output circuit power supply		Less than AC 250V/ DC30V	DC 5~30V	
COM current		_	Less than 0.1mA (DC 30V)	
Insulation		Mechanistic	Optical coupling	
LED State		When output is ON, then LED ON		
Leak current(open circuit)		_	0.1mA (DC 30V)	
Min	. load	-	DC 5V / 2mA	
	Resistive	2A/point, 8A/COM port	0.5A/point, 0.8A/4 points, 0.3A/HSPO point	
Max.load	Inductive	80VA	12W(DC 24V), 7.2W/HSPO point	
	General	100W	0.9W (DC24V)	
ON/OFF response time		About 10 ms	Less than 0.2ms, (HSPO point:5us)	

Power Supply Specification

AC Power Supply

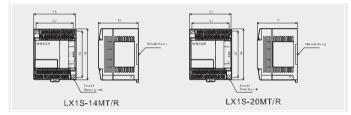
	V		
Item	Relay Type	Transistor Type	
Rated power	AC 100V~240V		
Voltage range	AC 86V~265V		
Rated frequency	50Hz / 60Hz		
Power outage time	<10ms (continue to work)		
Power fuse	250V / 1A	250V / 3.15A	
Rush current	< 30A	5ms (AC 100V) 5ms (AC 200V)	
Power consumption	<35W	<60W	
Sensor power supply	DC 24V 850mA	DC24V 700mA	

DC Power Supply

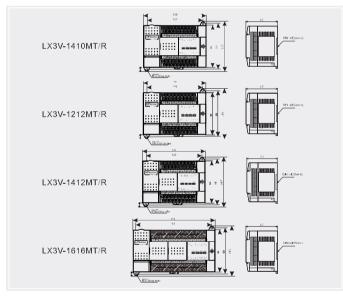
ltem .	LX3V series PLC		
Rated power	DC 24V		
Voltage range	DC 24V±10%		
Power outage time	<10ms (continue to work)		
Power fuse	250V / 3.15A		
Rush current	<15A 1ms (DC24V)		
Power consumption	<35W (No expansion included)		

PLC Products Dimension

LX1S Series PLC Dimension



LX3V Series PLC Dimension



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Program Software HMI PRODUCTS

Software interface, adopt microsoft latest RIBBON UI technology Compare with traditional menu-style user interface Ribbon have below advantages:

- All functions gather orderly, don't need to find cascading menu, toolbar.
- · Have more display space.
- ${\color{blue} \bullet}$ Abundant layout can help user to find the important, frequently-used functions.
- Show the views after modify, like change the TXT format.
- More adjust operate HMI







Screen shows APPLE style

- · Almost limitless screen storage sapace.
- Apple style menu, display style.
- Abundant bitmaps and vectors, make the screen more easier.
- \bullet Support template, have works of life typical application in
- template library.
 Support user-defined screensaver picture.
- \bullet Support JPG, BMP, GIF, PNG, and others format picture.
- \bullet Vivid color, maximum reduce the distortion.

* Remote view and monitor function:

Could check and monitor the device far hundreds * SCADA system: of miles, even thousands of mile in the office.

• Classification of rights management: Different levels permission,

keep your opreation and inforamtion safe. * Beautiful interface, component, provide better feel:

Exquisite user interface appearance, abundent metarials, make your project gorgeous.

* Support CPRS/GSM/3G/message/MMS/email and others

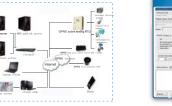
Could check out your device in a variety of ways t get the alarm and other important information

• Very high real-time:

Adopt new technology, improve the real-time,

let you remote operate the device smoothly.

Have powerful, comprehensive function, can meet the demand from all walks of life, simple to operate, low cost.



HMI

User-defined protocol

Serial port user-defined protocol and ethernet user-defined protocol

- can set the content of protocol as you like.:
 Could set the content of protocol via software interface and configuration file, make communication protocol no longer that stodgy.
- Support input and output of confuguration file, convenient for copy configuration file,





Security control

- . 12 screen security level,12 componnent level secret,make the operation safe.
- . Need input the secret code once uploading the project, protect intellectual property utmostly.
- * Set the time, if no one touch screen, HMI will be locked, need enter
- Operating button need to be reconfirmed, protect it from wrong operation.
- Switch interlock, don't allow interaction.



Screensaver

- Backligt: if no one touch the screen within specified time, system will automatically close the backlight of screen will automatically light up once touching screen
- Extend the life of backlight.
- Set the screensaver picture as you like.
- · Support screensavers beautiful Flash animation.



oftware functions

- Installment payment • Support 12 installment payment mode.
- · Reach the time of payment, notify customers for making payment.
- Need to enter the secret code, or the hmi will be locked down.



Multi link

- . WECON develo the Multilink protocol.
- · Support HMI high speed interconnection.

HMI

- Support one master screen, up to $255\ \mathrm{slave}$ screen, high speed communication between master and slave.
- Support RS485 interconnection, also support ethernet interconnection.
- WECON multi protocol can replace all PLC's protocol.







WEBSERVER

Open the web browser, such as IE, FIREFOX to visit HMI, can check out the data of PLC, HMI in web, revise and view production data,







recipe function

· Edit recipe

Format of recipe file is adopt CSV format can be compatible with windows, convenient for editing.

· Recipe storage

Storage medium: SD card, U disk, Flash inside HMI, no limitation in group number and ingredient number of recine.

• Recipe upload/download

Freely import and export, could choose real-time data according to PLC.

· Recipe file management Support manually editing CVS file, can increase and delete assigned recipe file.

	Double words	floating				
			100 group		ngredient	
RECIPE 1	111.254	466.544	112.24	555.22	6684.251	6684.25
RECIPE 2	111.254	466.544	112.24	555.22	6684.251	6684.25
RECIPE S	111.254	466, 544	112.24	555.22	6684.251	6684.25
RECEPT 4	111.254	466,544	112.24	555.22	6684.251	6684.251
RECEPT 5	111.254	466, 544	112.24	555.22	6684.251	6684.25
RECEPT 6	111.254	466, 544	112.24	555.22	6684.251	6684.25
RECIPE 7	111.254	466.544	112.24	555.22	6684.251	6684.25
RECIPE 8	111.254	466.544	112.24	555.22	6684.251	6684.25
RECIPE 9	111.254	466.544	112.24	555.22	6684.251	6684.25

Data record | HMI



Data record

- Provide alarm record, event record, storage after triggering.
- · Save data by CSV format, save as EXCEL, convenient for viewing.
- · Can upload data via serial port, ethernet.
- Support SD card, U disk, support up to 4G SD card.



Read data record

- Can transfer the data in SD card to U disk.
 • Freely provide data management software
- easy to use.
- Software can obtain record from HMI automatically(on the premise, HMI and upper pc have been connected)
- File can generate trend chart and reports,



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OPENCAN

- Support all can protocols
- Provide high open editing interface of CAN frame, easy to set your own CAN communication content.
- Revise your CAN protocol communication content at any time, make CAN communications more flexible.



CANOPEN

- Common bus protocol of Industrial Controls, open, standard
 CAN high layer protocol
 CAN high layer protocol
 Use DIS editor set object Dictionary, easily and clearly map out a
 HMI communication data.



Video input function

- Can extend video input port, support analog video signals input
- Connect camera to real-time monitor, support 4 line camera switching display.



Extended function display





	Series	LEVI430T	LEVI777A	LEVI700L	LEVI908T
	HMI type		7 inch	7 inch	8 inch
Display	Display type	TFT ture color	TFT ture color	TFT ture color	TFT true color
	Color	65536 color	65536 color	65536 color	65536 color
ratin	Resolution	480×272	800×480	800×480	800×600
	Displaying size	95W ×54H mm	154.0W ×85.9H mm	154.0W ×85.9H mm	162.0W × 121.5 Hm m
	brightness ajust	software adjust	software adjust	software adjust	software adjust
	Touch screen	high precision resistance-type	high precision resistance-type	high precision resistance-type	high precision resistance-type
	Backlight	LED	1.ED	LED	LED
Backlight	Backlight life	50000 hours	50000 hours	50000 hours	50000 hours
	Dormancy	selectable	selectable	selectable	selectable
	CPU	400MH Z	400M H Z	400M H Z	400M H Z
	video input	/	optional	1	/
	Power voltage	DC 24V	D C 24V	DC 24V	DC 24V
General	Power voltage range	D C 12V *D C 28V	D C 12V ^ D C 28V	D C 12V ^ D C 28V	D C 12V ^ D C 28V
ation	Power comsumption	<5W	<5W	<5W	<5W
	Work temperature	—10°C~+60°C	−10°C^+60°C	−10°C^+60°C	−10°C~+60°C
	Protection grade	P65	P65	P65	P65
	Shape size	138.0W ×86.0H ×37.0D mm	212W × 146H × 36D mm	212W ×146H × 36D mm	238.0W × 188.6H × 47.4D mm
	Installation size	131.0 ± 0.5W × 79.0 ± 0.5H mm	192.0 ± 0.5W × 138 ± 0.5H mm	192.0 ± 0.5W × 138 ± 0.5H mm	224.0 ± 0.5W × 181 ± 0.5H mm
	Certificates	CE,#CC	CE,FCC	CE,FCC	CE,#CC
	Serial port (COM1)	RS422#S232#S485@ pins)	RS232C RS422 RS485 (9 pins)	RS232C RS422 RS485 @ pins)	RS232C RS422 RS485 Q5 pins)
	Extended port (COM2)	/	RS232C, RS485 (pins)	/	RS232C/RS485(9 pins)
	Extended prot (COM3)	/	optional	/	optional
interface	USB HOST		Yes	Yes	Yes
	USB DEVICE	Yes	Yes	Yes	Yes
	Ethernet		optional	/	optional
	CAN DEVICE OPEN		optional	/	optional
	EMIF	U disk	SD card	/	SD card
	Vidio output		optional	/	optional
storage	Screen picture storag	e FLASH 128M	FLASH 128M	FLASH 128M	FLASH 128M
	DDR		DDRII 64M	DDRH 64M	DDRII 64M



	series	LEVI102A	LEVI8108(A8)	LEVI910T
	HMI type	10.2 inch	10.2 inch	10.4 inch
Display	Display type	TFT ture color	TFT ture color	TFT ture color
configu	color	65536 color	65536 color	65536 color
ration	Resolution	800× 480	800*600	800×600
	Displaying size	219.6W X 131.76H mm	222. 72W x 125. 28mm	211.2W ×158.4H mm
			software ajust	software adjust
	Touch screen	high precious resistance-type	high precious resistance-type	high precious resistance-type
	Backlight			LED
Back light	Backlight life	50000 hours	50000 hour	50000 hours
, i	Dormanc	selectable	selectable	selectable
	CPU	400M H Z	667MHZ (CORTEX A8)	400M H Z
	Video input	optional	/	/
	Power voltage	DC 24V	D C 24V	DC24V
General	Power voltage range	DC12V~DC28V	D C 16V-28V	DC12V~DC28.8V
configu	Power comsumption	<5W	<5W	<10W
ration	Work temperature	-10°C~+60°C	-10°C [~] +60°C	−10°C~+60°C
	Protection grade	P65	P65	₽65
	Shape size	272.0W ×200.0H ×47.5D mm	272.0W ×200.0H ×47.5D mm	299.0W ×222H ×54D mm
	Installation size	260.0±0.5W ×179±0.5H mm	260.0±0.5W ×179±0.5H mm	288.0 ± 0.5W ×212 ± 0.5H m m
	Certificates	CEFCC	CEFCC	CE,FCC
	serial port (COM1)	RS232C & S422 & S485 @ pins)	R S232C A S422 R S485 9 pins)	RS232C RS422 RS485 (25 pins)
	Extended port (COM2)	RS232C/RS485@ pins)	R S232C/R S485 (9 pins)	RS232C & S485 @ pins)
External	Extended port (COM3)			optional
port	USB HOST	Yes	Yes	Yes
	USB DEVICE	Yes	Yes	Yes
	Ethernet		Yes	optional
	CAN DEVICE OPEN	optional	Yes	optional
	EMIF	SD card	SD card	SD card
	Vidio output	optioanl	optional	optional
	screen picture storage	FLASH 128M	FLASH 512M	FLASH 128M
storage	DDR	DDRII 64M	DDRII 256M	DDRII 64M

Supported device

Brand	Model/protocol
P LC s	
ABB	COMLIShve, Binary)
A llen-Brad ley	M icroLog ic1000/1500
DELTA	DVP series
Em erson	DKG 2, EC 20 series
FAC O N	FB series
FATEK	FBSseries
FEST0	MODBUS TCP/P, FPC/FEC series
FU JI	Nbseries
GE FANUC	Series 90 CCM SNP
H WACH I	ECÆH2 series
HAW ELL	Whole series
HOLLYSYS	Whole series
DEC	FA-2JM ino-3M inoSmart
NO VANCE	Whole series
KEYENCE	KV series
JETTER	DELTAprotocol
кото	Direct protocal/k protocol
LG	K200S,K300S,M ASTER-K10S
OM RON	CS.CP protocol, FNS protocol
Panason i:	Fp series
M ITSUBBHI	A series FX1N FX2N Q series /FX 3U C
MODEON	984 RTU SLAVE,MASTER
SCHNEDER	NEZA ÁVANOÁW DO
SHARP	Sharp JW series
SIEM EN S	S7-200,87-300 (PP DM P.D)
TA BN	TP01,02,03 series
TO SH BA	M 20/M 40/T1/T2 series
VEOR	M ∜B series
XNJE	Whole series
YO KO G AW A	FA-M 3 series
WECON	LX series

Brand	Model/protocol
Inverter	
DANFOSS	VLT series
DELTA	VFD-B series
HOLP	Whole
NVT	Whole
M TSUBBHI	Freqmb-A500 series
TA IN	Whole series
SEMENS	USS protocol
Temperature controller/da	ata acquisition
ERO	ERO TFS/THS/LFS
YU D IAN	ABUS protocol
W DEPLUS	W P protocol
Changhui	SW protocol
Hongge	whole protocol
AD VAN TEC	ADAMS protocol
ICPC O N	Whole series
Baite	Whole series
Donghuí	Whole series
Hongrun	Whole series
Servo	
Yaskawa servo	
Open communication protoco	ol
WECON communication protocol	
M O D B U S R T U	M ASTER, SLAVE
M O D BU S ASC II	M ASTER, SLAVE
MODBUS TCP/IP	M ASTER, SLAVE
BACNET	
0ther	
CAN BUS	J1939,user-defined CAN protocol
PROFBUS	MPI

