



SOFTLINK

Product Catalogue

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Content

Content.....	ii
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SOFTLINK 300

CPU.....	5
CPU with Ethernet.....	7
SM321 24V DC	
Digital Input Module	9
SM321 120/230V AC	
Digital Input Module	10
SM322 24V DC	
Digital Output Module	11
SM322 Relay	
Digital Output Module	13
SM323 24VDC	
Digital Input/Output Module	15
SM331	
Analog Input Module	17
SM332	
Analog Output Module	19
IM 153 Profibus-DP	
Interface Module.....	20
SOPOWER PS	
2.5A/5A/10A	21
PPI Adapter.....	22
Front Connector	23
DIN Rail	23

IDEABOX

IDEABOX Controller	25
SOFTPRO	28

SOFTLINK 200

EM221	
Digital Input Module	32
EM222	
Digital Output Module	34
EM222	
Digital Input/Output Module	35
High-density Module.....	38

SOFTLINK 200

Analog Module	40
Analog Input Module	42

PROFIBUS

RTI31 Profibus Remote I/O	44
Digital Input Module	45
RTI32 Profibus Remote I/O	
Digital Output Module	47
RTI33 Profibus Remote I/O	
Digital Input/Output Module	49
PROFIBUS Connector	51
PROFIBUS Connector	52
Opto-isolator	52
Easy Angle	53
Profibus Connector	53
Profinet Connector	54
Cable	54

Contact	55
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2011-11 EU

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SOFTLINK 300

SOFTLINK300 CPU



- Program with STEP®7 from Siemens
- Integrated work memory operation without additional memory card
- Flexible extension of memory, using a Memory Configuration Card up to 64Mb
- Supporting standard MMC cards for saving of program and data
- Profibus-DP and MPI-Interface on board
- Designed compatibility to the S7-300 from Siemens
- Real-time clock
- Mixed operation of SOFTLINK and Siemens modules in the same rack is supported
- Modular design for easy expansion
- Centralized applications with up to 32 modules in one CPU rack
- 24 months warranty

Order Data

	Order No.
CPU314 PROFIBUS-DP slave	300 314-ISL01
CPU314 PROFIBUS-DP master/slave	300 314-2DP01
CPU315 PROFIBUS-DP master/slave	300 315-2DP01

Technical Data

Order No.	300314-ISL01	300314-2DP01	300315-2DP01
Electric			
Input Voltage	DC 24V	DC 24V	DC 24V
Current Consumption	1.2A	1.2A	1.2A
Current supply	3.5A	3.5A	3.5A
CPU			
Work memory	96KB	96KB	196KB
Load memory	144KB	144KB	144KB
Bit memory	8192	8192	8192
Total address space I/O	1024byte	1024byte	1024byte
Timer/Counter	256	256	256
Blocks	OB I:10/20/35/40/80/82/ 85/86/100/121/122 FB:1024 FC:1024 DB:2047	OB I:10/20/35/40/80/82/8 5/86/100/121/122 FB:1024 FC:1024 DB:2047	OB I:10/20/35/40/80/82/8 5/86 /100/121/122 FB:1024 FC:1024 DB:2047
Processing time of bit/word	0.18/0.78us	0.18/0.78us	0.18/0.78us
Interface	MPI & Profibus DP slave	MPI & Profibus DP master	MPI & Profibus DP master
Module per rack	32	32	32
Profibus DP			
Slave			
Total address space I/O	64 Byte	64 Byte	64 Byte
Transmission rate	9.6K to 12MB baud	9.6K to 12MB baud	9.6K to 12MB baud
Master			
No. of slaves		Max 125	Max 125
Total address space I/O		1024 Byte	1024 Byte
Transmission rate		9.6K to 12MB baud	9.6K to 12MB baud

SOFTLINK 300 CPU with Ethernet



- Programming with STEP 7 from Siemens
- Compatible with Siemens S7-300
- Integrated work memory operation without additional memory card
- Support of Standard MMC Card, Max. 64Mb
- Integrated Profibus DP Master/Slave
- Integrated Ethernet port

Order Data

	Description
300 314-INSI0	CPU314 with Ethernet port, Profibus-DP Slave
300 314-2NEI0	CPU314 with Ethernet port, Profibus-DP Master/Slave
300 315-2NEI0	CPU315 with Ethernet port, Profibus-DP Master/Slave

Technical Data

300 314-INS01		300 314-2NE01	300 315-2NE01
ELECTRICAL SPECIFICATIONS			
Input Voltage L+	DC24V	DC24V	DC24V
Current Consumption L+	1.2A	1.2A	1.2A
Power Consumption	2W	2W	2W
Current supply	3.5A	3.5A	3.5A
Work Memory(KB)	96KB	96KB	192KB
Load Memory(KB)	144KB	144KB	256KB
Backup Battery/Timer	Y/Y	Y/Y	Y/Y
Bit Memory	8192	8192	8192
Timer/Counter	256/256	256/256	256/256
Total address space I/O	1024/1024 byte	1024/1024 byte	1024/1024 byte
Processing time of bit/word(us)	0.18/0.78	0.18/0.78	0.18/0.78
Blocks	OB1/10/20/35/40/80/82/85/86/100/121/122 ;		
FB	1024	1024	1024
FC	1024	1024	1024
DB	2047	2047	2047
1 st Port	MPI	MPI	MPI
2 nd Port	Profibus DP Slave	Profibus DP Master/Slave	Profibus DP Master/Slave
3 rd Port	Ethernet port	Ethernet port	Ethernet port
Module per rack	32	32	32
Profibus-DP Data :			
Slave :			
Total address space I/O	64/64 Byte	64/64 Byte	64/64 Byte
Transmission rate	9.6K to 12MB Baud	9.6K to 12MB Baud	9.6K to 12MB Baud
Master :			
No. of Slaves		Max.125 (32/B)	Max.125 (32/B)
Total address space I/O		1024/1024 Byte	1024/1024 Byte
Transmission rate		9.6K to 12MB Baud	9.6K to 12MB Baud

SM32I 24V DC

Digital Input Module



SOFTLINK 300 digital inputs convert the external binary signals from the process into the internal signal level of the programmable controller.

- Compatible with S7-300 and VIPA 300V systems
- Suitable for proximity switch
- Galvanic isolation from CPU (S7-300 and VIPA300V)
- LED indicators for every channel
- High cost efficiency

Order Data

	Order No.
SM32I, 16 inputs 24V DC, floating	300 32I-1BH02
SM32I, 16 inputs 24V DC, resourcing	300 32I-1BH50
SM32I, 32 inputs 24V DC, floating	300 32I-1BL00

Technical Data

Order No.	300 32I-1BH02	300 32I-1BH50	300 32I-1BL00
Number of inputs	16	16 source	32
Input voltage	24V DC	24V DC	24V DC
For "0" signal	0-5V	15-30V	0-5V
For "1" signal	15-30V	0-5V	15-30V
Delay time	About 3ms	About 3ms	About 3ms
Input current for "1" signal	About 7mA	About 7mA	About 7mA
Connection of 2-wire initiator	Max 1.5mA	Max 1.5mA	Max 1.5mA
Cable length unshielded shielded	600m 1000m	600m 1000m	600m 1000m
Current consumption (backplane bus)	10mA	10mA	15mA
Power loss (rated operation)	3.5W	3.5W	6.5W
Isolation	Optical Isolation,8	Optical Isolation,8	Optical Isolation,8
Dimension (W×H×D) mm	40×125×120	40×125×120	40×125×120
Weight	About 220g	About 220g	About 220g
Front connector	20-way	20-way	40-way

SM32I 120/230V AC Digital Input Module



SOFTLINK 300 digital inputs convert the external binary signals from the process into the internal signal level of the programmable controller.

- Compatible with S7-300 and VIPA 300V systems
- Suitable for proximity switch
- Galvanic isolation from CPU (S7-300 and VIPA300V)
- LED indicators for every channel
- Cost-efficiency

Order Data

	Order No.
SM32I, 8 inputs 120/230V AC	300 32I-1FF0I
SM32I, 16 inputs 120/230V AC	300 32I-1FH00

Technical Data

Order No.	300 32I-1FF0I	300 32I-1FH00
Number of inputs	8	16
Input voltage	120/230V AC	120/230V AC
For "0" signal	0-40V	0-40V
For "1" signal	79-264V	79-264V
Frequency	47-63Hz	47-63Hz
Delay time	About 25ms	About 25ms
Input current for "1" signal	6.5mA(120V) 11mA(230V)	6.5mA(120V) 11mA(230V)
Connection of 2-wire initiator	Max 2mA	Max 2mA
Cable length unshielded	600m	600m
shielded	1000m	1000m
Current consumption	30mA	40mA
Power loss(rated operation)	4W	5W
Isolation , in group of	Optical Isolation,8	Optical Isolation,8
Dimension (W×H×D) mm	40×125×120	40×125×120
Weight	About 240g	About 275g
Front connector	20-way	20-way

SM322 24V DC Digital Output Module



SOFTLINK 300 digital outputs convert the internal signal level to the external signal level required for the process.

- Compatible with S7-300 and VIPA 300V systems
- Suitable for connection of solenoid valves, contactors, and small-power motors within the permissible data
- Galvanic isolation from the process level
- LED indicators for supply voltage and error messages
- LED indicators for every channel
- High cost efficiency

Order Data

	Order No.
SM322, 8 outputs, 24V DC, floating	300 322-1BF01
SM322, 16 outputs, 24V DC, floating	300 322-1BH01
SM322, 32 outputs, 24V DC, floating	300 322-1BL00

Technical Data

Order No.	300 322-IBF01	300 322-IBH01	300 322-IBL00
Number of outputs	8	16	32
Supply voltage	24V DC	24V DC	24V DC
Output voltage	L+ -0.8V	L+ -0.8V	L+ -0.8V
Max output current	2A	1A	1A
Mini. output current	5mA	5mA	5mA
Current consumption of each group	10A	10A	10A
Light load	10W	5W	5W
Output switch frequency	Resistive , 100Hz Inductive , 0.5Hz	Resistive , 100Hz Inductive , 0.5Hz	Resistive , 100Hz Inductive , 0.5Hz
Cable length unshielded	600m	600m	600m
shielded	1000m	1000m	1000m
Output current nom. value	30mA	30mA	30mA
Current consumption (backplane bus)	40mA	80mA	110mA
Power loss	6.8W	4W	5W
Isolation,in group of	Optical Isolation,4	Optical Isolation,8	Optical Isolation,8
Short-circuit protection	Electronic	Electronic	Electronic
Dimension (W×H×D) mm	40×125×120	40×125×120	40×125×120
Weight	About 200g	About 220g	About 250g
Front connector	20-way	20-way	40-way

SM322 Relay Digital Output Module



SOFTLINK 300 digital outputs convert the internal signal level to the external signal level required for the process.

- Compatible with S7-300 and VIPA 300V system
- Suitable for connection of solenoid valves, contactors, and small-power motors within the permissible data
- Galvanic isolation from the process level
- LED indicators for supply voltage and error messages

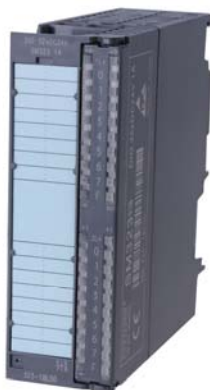
Order Data

	Order No.
SM322, 8 relay outputs, floating	300 322-1HF01
SM322, 16 relay outputs, floating	300 322-1HH01
SM322, 16 relay outputs, dry contact	300 322-1HH50

Technical Data

Order No.	300 322-1HF01	300 322-1HH01	300 322-1HH50
Number of outputs	8 relay	16 relay	16 relay
Input voltage	24-230V AC 24-120V DC	24-230V AC 24-120V DC	24-230V AC 24-120V DC
Switching frequency	resistive , 2Hz inductive , 0.5Hz	resistive , 1Hz inductive , 0.5Hz	resistive , 1Hz inductive , 0.5Hz
Output current resistive load inductive load	2A (230V AC), 2A (24V DC) 2A (230V AC), 2A (24V DC)	2A (230V AC), 2A (24V DC) 2A (230V AC), 2A (24V DC)	2A (230V AC), 2A (24V DC) 2A (230V AC), 2A (24V DC)
Current consumption of each group	2A	8A	2A
Cable length unshielded shielded	600m 1000m	600m 1000m	600m 1000m
Current consumption w/o load	110mA	250mA	250mA
Current consumption (backplane bus)	40mA	100mA	100mA
Power loss	2.2W	5W	6W
Isolation ,in group of protection of polarity reverse	Optical Isolation,2 Yes	Optical Isolation,8 Yes	Optical Isolation,1 Yes
Dimension (W×H×D) mm	40×125×120	40×125×120	40×125×120
Weight	About 190g	About 250g	About 250g
Front connector	20-way	20-way	40-way

SM323 24VDC Digital Input/Output Module



SOFTLINK SM323 is a combined module. It converts the internal signal level to the external signal level required for the process and also converts the external binary signals from the process into the internal signal level of the programmable controller (S7-300 and VIPA 300V).

- Compatible with S7-300 and VIPA 300V system
- Suitable for connection of approximate switches, solenoid valves, contactors and small-power motors with the permissible range
- Diagnostic LEDs

Order Data

	Order No.
SM323, 8 inputs/8 outputs 24V DC, floating	300 323-1BH01
SM323, 16 inputs/16 outputs 24V DC, floating	300 323-1BL00

Technical Data

Order No.	300 323-IBH01	300 323-IBL00
Number of input/output	8/8	16/16
Load voltage	24V DC	24V DC
Input voltage for signal "0"	0-5V	0-5V
Input voltage for signal "1"	15-30V	15-30V
Input delay	About 3ms	About 3ms
Input current for signal "1"	About 7mA	About 7mA
Connection of 2-wire initiator	Max 1.5mA	Max 1.5mA
Max output current	1A	1A
Sum. current of each group	10A	10A
Switch frequency	resistive , 100Hz inductive , 0.5Hz ,	resistive , 100Hz inductive , 0.5Hz
Current consumption(backplane bus)	40mA	80mA
Power loss	3.5W	3.5W
Isolation , in groups of	Optical Isolation, 8	Optical Isolation, 8
Dimension (W×H×D) mm	40×125×120	40×125×120
Weight	About 220g	About 260g
Front connector	20-way	40-way

SM33 I Analog Input Module



SOFTLINK 300 analog inputs convert the analog signal level from the process into digital signal level required for processing.

- Compatible with S7-300 and VIPA 300V system.
- Suitable for connection of voltage and current sensors, thermocouples, resistors and resistance thermometer
- Direct parameter setting on hardware
- LED indicators for every channel

Order Data

Order No.	
SM33 I, 8 inputs * 12 bit, multi-function analog input	300 33 I-7KF02
SM33 I, 8 inputs * 13 bit, multi-function analog input	300 33 I-1KF02

Technical Data

Order No.	300 331-7KF02	300 331-1KF02
Number of Input	8	8
Used in resistance measurement	4	8
Input voltage L+	24V DC	
Input range Voltage	$\pm 80\text{mV}, \pm 250\text{mV}, \pm 500\text{mV}, \pm 1\text{V}(10\text{M}\Omega)$	$\pm 50\text{mV}, \pm 500\text{mV},$
Current	$\pm 2.5\text{V}, \pm 5\text{V}, \pm 10\text{V},$ $1-5\text{V}(100\text{K}\Omega)$	$\pm 1\text{V}(100\text{M}\Omega), \pm 5\text{V}, \pm 10\text{V},$ $0-10\text{V}, 1-5\text{V}(100\text{K}\Omega)$
Resistance/RTD	$\pm 3.2\text{mA}, \pm 10\text{mA}, \pm 20\text{mA},$	$\pm 20\text{mA}, 0-20\text{mA}, 4-20\text{mA}$
Thermocouple	$0-20\text{mA}, 4-20\text{mA} (50\Omega)$ $150\Omega, 300\Omega, 6000\Omega,$ PT100, Ni100(10M Ω) E,N,J,K,L (10M Ω)	(100Ω) $0\text{.....}600\Omega,$ $0\text{.....}6\text{K}\Omega(100\text{M}\Omega), \text{Pt}100,$ $\text{Ni}100, \text{Ni}1000(100\text{M}\Omega)$
Resolution	9/12/12/14bit(400/60/50/10 HZ)	13bit(60/50Hz)
Basic error limit operation at 25 $^{\circ}\text{C}$	0.6%	0.6%
Limit value alarm	parameterizable	
Diagnostic alarm	parameterizable	
Temperature compensation	Internal compensation	
Cable length	200m	200m
Current consumption (backplane bus)	100mA	200mA
Power loss	3W	1W
Isolation	Optical Isolation	Optical Isolation
Polarity reverser protect	Yes	
Dimension (W×H×D) mm	40×125×120	40×125×120
Weight	About 250g	About 250g
Front connector	20-way	40-way

SM332

Analog Output Module



SOFTLINK 300 analog outputs convert digital signals from the PLC into analog signals for the process.

- Compatible with S7-300 and VIPA 300V system
- Suitable for connection of analog actuator
- LED indicators for every channel

Order Data

	Order No.
SM332, 4 analog outputs, 12 bytes current/voltage	300 332-5HD01

Technical Data

Order No.	300 332-5HD01
Number of output	4
Input voltage L+	24V DC
Input range Voltage Current	±10V , 1-5V , 0-10V 0-20 mA , 4-20 mA , ±20 mA
Resolution	11+sign bit(±10V , ±20 mA) 12bit(1-5V , 0-10V, 0-20 mA , 4-20 mA)
Basic error limit operation at 25°C	0.5%
Diagnostic alarm	parameterizable
Cable length	80m
Current consumption (backplane bus)	120mA
Power loss	3W
Isolation	Optical Isolation
Polarity reverser protect	Yes
Dimension (W×H×D) mm	40×125×120
Weight	About 250g
Front connector	20-way

IM 153 Profibus-DP Interface Module



SOFTLINK 300 I/O modules can be used as Profibus-DP slaves via interface module IM 153.

Order Data

	Order No.
IM153 Profibus-DP slave, interface module	300 153-1AA03

Technical Data

Order No.	300-153-1AA03
Power	
Input Voltage	24V DC
Input current	Max 800mA
output Voltage	supply the back plantbus with DC5V power
output current	supply the back plantbus with 3.5A power
Communication	
Communication	Profibus DP
Connector	9pinSUB-D female connector
Transmission speed	9.6KB-12MB Speed adaptive
Station address	1~99
Hardware Configuration	
the max umber of each slave interface module	
Digital Modules	29
Analog modules	9
Isolation	Isolation voltage 500V
Work temperature	0...55°C Natural ventilation
Protection Level	IP20
Dimension (W×H×D) mm	40×125×120
Weight	170g

SOPOWER PS 2.5A/5A/10A



DC 24V power supply is suitable for systems SOFTLINK 300, S7 300 and VIPA 300V.

- Protection against short circuit, overload and overheat
- Used as load power supply

Order Data

	Order No.
PS307, 2.5A	300 307-1BA00
PS307, 5A	300 307-1EA00
PS307, 10A	300 307-1KA01

Technical Data

Order No.	300 307-1BA00	300 307-1EA00	300 307-1KA01
Input Voltage	100-240VAC	120/230VAC	120/230VAC
Frequency	50/60Hz	50/60Hz	50/60Hz
Input current	1.5A MAX(90VAC)	2.1A/1.2A	4.1A/2.1A
Output voltage	24V DC $\pm$ 3%	24V DC $\pm$ 3%	24V DC $\pm$ 3%
Output current	2.5A	5A	10A
Ripple	<150mVpp	<150mVpp	<150mVpp
Efficiency	About 83%	About 87%	About 90%
Protection of overload	2.75-3.4A	5.5-6.5A	11-13A
Current limit	Electronic,automatic restart		
Protection of short circuit	10A	20A	35A
CE certificate	Yes		
Protection	IP20	IP20	IP20
Temperature	0-55 $\square$, aeration	0-60 $\square$, aeration	0-60 $\square$, aeration
Dimension (W*H*D)	50*125*120	80*125*120	120*125*120
Weight	About 420g	About 740g	About 1100g

PPI Adapter



PPILINK

The PPILINK permits connection of a PC laptop with programming software STEP®7 MicroWin to siemens S7-200 programmable controllers via any standard COM port of PC.

PPILINK-USB

The PPILINK-USB permits connection of a PC laptop with programming software STEP®7 MicroWin to siemens S7-200 programmable controllers via any USB interface of PC .

Order Data

Order No.	
PPI adapter, interface RS232	PPILINK
PPI adapter, interface USB	PPILINK-USB

Front Connector



Order Data

	Order-No.
Front connector 20-way	300 392-IAJ00
Front connector 40-way	300 392-IAM00

DIN Rail



	Order-No.
160mm	300 390-IAB60
320mm	300 390-IAD20
482mm	300 390-IAE80
530mm	300 390-IAF30
830mm	300 390-IAJ30
DIN rail for active bus module, 482mm	300 195-IGA00
DIN rail for active bus module, 530mm	300 195-IGF30
DIN rail for active bus module, 600mm	300 195-IGG00
DIN rail for active bus module, 620mm	300 195-IGG20



IDEABOX Controller



IDEABOX is a leading high-end controller in industrial automation.

It is a combination of industrial automation technology and PC technology, integrated multi-slave IO control, with CPU and chipset running on Intel Standard X86 architecture and high-performance DSP as the system processor, high-performance FPGA as the co-processor.

Compared with the traditional controller, IDEABOX achieves high performances on control and speed & data processing, leading the development of the industrial control technology.

Order Data

Order No.	
300 512-0CG01	CPU 600M, Ethernet 10M/100M Adaptive, SOFTBUS, RS232, WinCE, HD: 1G
300 512-4CG01	CPU 600M, 4-axis motion control, Ethernet 10M/100M Adaptive, SOFTBUS, RS232, WinCE, HD: 1G
300 512-8CG01	CPU 600M, 8-axis motion control, Ethernet 10M/100M Adaptive, SOFTBUS, RS232, WinCE, HD: 1G

Technical Data

Order No.	300 512-0CG01	300 512-4CG01	300 512-8CG01
CPU	600MHz		
RAM	256M		
Storage Devices	DOM: 1 G (standard), 2 G, 4 G (selectable)		
Backplane Interface	USB 2.0×2, standard keyboard, mouse PS/2 interface, RS232×1, standard RJ45 interface		
Operating System	Windows CE		
Power Supply	18V – 36V, Icc ≥ 3 A		
Working Conditions	Temperature: -20℃ - 65℃ Humidity: 5%-90%		
Dimension	296 mm × 160 mm × 75 mm		

Function

1. IDEABOX is able to realize synchronization motion control with max 8 axis. Customers could choose the type of control signals on request, including Differential Pulse Signal (with the highest frequency, 1MHz) and Analog Signal (in voltage range up to ± 10 V, and 16 Bits resolution). Every axis has an encoder feedback channel. Quadrupler reaches 8 MHz.
2. Home, Index Capture Function permits a more precise positioning, and higher control accuracy in the process.
3. IDEABOX provides 56-way (among which 16-way Input and 16-way Output are generalized I/O) high-speed IO channel, via which users could access alarm, limit, origin signals, etc, with the short delay time of 20 ms.
4. Offer a variety of motion control modes (JOG, position, PT, electronic gear, electronic cam etc), to achieve the velocity algorithm, such as asymmetric T curve, S-curve, and etc; And offer digital filter to realize PID + speed feedforward + acceleration feedforward, and other functions.
5. Support of the multi-axis interpolation motion, such as the linear interpolation between any two axis, and the circular interpolation among three axis
6. Support of controlling the inverter via analog signals
7. Support of multi-slave IO function, extendable digital and analog IO (max. 16 slaves with max. 16 modules for each) with the scanning cycle down to 1 ms

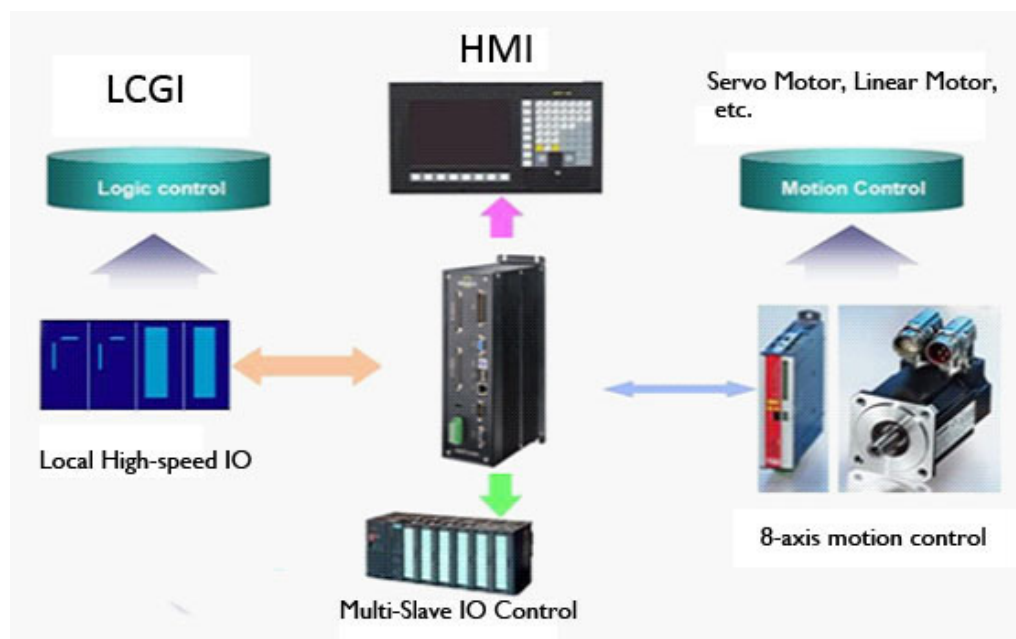
Flexibility

IDEABOX integrates standard RS232 and RJ45 interfaces, which permits the flexible applications in MODBUS protocol, Ethernet protocol, etc. It can realize synchronization control via several IDEABOXs, to interchange data and share Network Variables within the same network.

Applications

With the excellent control function and advanced design idea, IDEABOX has outstanding performance in many fields, such as metallurgy, coal, petrochemical, electricity, environment protection, rail transportation, cutting equipment, sheet metal processing equipment, dispensing equipment, PCB machining equipments, engraving and milling equipment, CNC processing equipment, injection molding machine industry, etc.

Control System





Softpro is a software platform for IDEABOX series, with the advantages of variety of programming languages, modular programming structures and integration programming ways.

It integrates advanced Basic programming functions, and covers multitasking processor, function & operation mode, data type, local data and other properties, with support of import and export function among different programs, to realize the reusable control system.

Based on these functions, Softpro makes programming simple, easy to understand, and convenient to maintain.

Softpro is an advanced high-performance automation programming software with wider applications beyond the logic control needs. It can be also applied to motion control, HMI interaction, communication handshake, file statements and complex mathematical function. Based on the high-accuracy and flexible request in industrial applications, Softpro concentrates on making more creative and advanced control function and tools to provide solutions on user's requests.

Main Features:**1. On Programming Languages**

Softpro is a programming environment based on the International IEC61131-3 Standard, providing 5 programming languages: Instruction List (IL), Function Block Diagram (FBD), Ladder Diagram (LD), Structured Text (ST), Sequential Functional Chart (SFC).

2. On Multitasking Stream Programming

Via one of the main functions, multitasking function, users could write, use, stop every software task, and meanwhile, they could set task priority to optimize workflow and improve the mechanical property.

3. On Motion Control Function

Softpro contains many library files with various functions, among which motion control library meets most of application requirements on motion control. Even for the complex motion types, it provides read access via simple calls. And, the motion control supports mono-axis and multi-axis operation, and multi-axes interpolation motion. Softpro could accomplish the linear interpolation between any two axes, and the circular interpolation among three axes.

4. On Debugging Facility

Softpro provides the online browser function for users to detect the IO statement in slaves, and to test and debug servo system, including testing axis motion state, deleting axis state and starting axis motion, which is more efficient for users to monitor the hardware equipment of control system. The support of breakpoint debugging function can set breakpoints for users to debug programming codes step by step.

5. On HMI Function

Softpro integrates Human-Machine Interface program for users to realize the monitor program of upper computer, alarm processing program and the oscillograph software, etc.

6. On Library Files System

Softpro provides standard library files and the one with special functions for users to realize control tasks for special functions, such as the operation of reading and writing the files and the special memory, and crypto-operation on programs. What's more, it provides functions in corresponding library files to realize Ethernet communication and Modbus communication programming simply via calling them.

7. On Flexibility

Softpro is able to interchange data easily with the systems developed by VB. net\C++ etc, which makes the process flexible and convenient.

8. On Off-line Simulation Function

The user can start the simulation function in offline status to accomplish the simulation function of testing and controlling the logic sequence for the whole program codes.

9. Other Functions

Support of Real-time Clock, WatchDog Timer, Password Protection, Sample Tracing, Log Management, Offline Simulation and other functions

SOFTLINK 200

EM221 Digital Input Module



SOTLINK 200 digital inputs convert the level of the external digital signals from the process into the internal signal level of S7-200.

- Compatible with S7-200 system
- Suitable for linking the control to digital process signals
- Input/output LEDs fro corresponding terminals

Order Data

	Order-No.
EM221, 8 inputs 24V DC	200 221-IBF22
EM221, 16 inputs 24V DC	200 221-IBH22

Technical Data

Order No.	200 221-IBF22	200 221-IBH22
Number of digital inputs	8	16
Pluggable I/O terminals	Yes	Yes
Input voltage	24 V DC	24 V DC
Input voltage for signal "0"	0 to 5 V	0 to 5 V
Input voltage for signal "1"	15 to 30 V	15 to 30 V
input delay	4.5 ms	4.5 ms
Permissible quiescent current (2-wire BEROs), max	1 mA	1 mA
cable length, shielded, max.	500 m	500 m
cable length, unshielded, max.	300 m	300 m
Current consumption from backplane bus DC 5 V, max	30 mA	40 mA
Isolation galvanic, isolation. digital inputs between the channels in groups of	Yes, Optocoupler 4	Yes, Optocoupler 4
power loss	1 W	1 W
Dimension (W×H×D) mm	46×80×62	71.5×80×62
Weight	About 100g	About 150g

EM222

Digital Output Module



SOFTLINK 200 digital outputs convert the internal signal level of the S7-200 into the external signal level required for the process.

- Compatible with S7-200 system
- Input/output LEDs for corresponding terminals

Order Data

	Order-No.
EM222, 8 outputs 24V DC	200 222-1BF22
EM222, 8 relay outputs	200 222-1HF22

Technical Data

Order No.	200 222-1BF22	200 222-1HF22
Number of digital outputs	8	8
Pluggable I/O terminals	Yes	Yes
Load voltage L+ /L- permissible range limit (DC)	24V DC 20.4 V-28.8VDC	24V DC/24V-230V AC 20.4V -28.8V DC,20-250VAC
Input voltage	L+-0.3V	
Output current for signal "1" Output current for signal "0"	0.75A 10□A	2A 0mA 0mA
Aggregate current of outputs per group	3A	8A
Short-circuit protection of the output	No	No
cable length, shielded, max. cable length, unshielded, max.	500 m 150 m	500 m 150 m
Current consumption from backplane bus DC 5 V, max	50 mA	40 mA
galvanic, isolation. digital outputs between the channels in groups of	Yes, Optocoupler 4	Yes, Relay 4
power loss	2 W	2 W
Dimension (W×H×D) mm	46×80×62	46×80×62
Weight	About 100g	About 150g

EM222

Digital Input/Output Module



SOFTLINK 200 digital inputs convert the digital signals from the process into the internal signal level of the programmable controllers.

SOFTLINK 200 digital outputs convert the internal signal level of the programmable controllers into the digital signals required for the process.

- Compatible with S7-200 system
- Input/output LEDs fro corresponding terminals

Order Data

	Order-No.
EM223, 8 inputs/8 outputs 24V DC	200 223-1BH22
EM223, 8 inputs/8 relay outputs 24V DC	200 223-1PH22
EM223, 16 inputs/16 outputs 24V DC	200 223-1BL22
EM223, 16 inputs/16 relay outputs 24V DC	200 223-1PL22

Technical Data

Order No.	200 223-IBH22	200 223-IPH22
Number of digital inputs	8	8
Input voltage	24 VDC	24 VDC
Input voltage for signal "0"	0 to 5 V	0 to 5 V
Input voltage for signal "1"	15 to 30 V	15 to 30 V
Input current for signal "1" for standard inputs at "0" to "1"	5 mA 4.5 mS	5 mA
permissible quiescent current (2-wire BEROs), max	1 mA	1 mA
cable length, shielded, max.	500 m	500 m
cable length, unshielded, max.	300 m	300 m
Number of digital outputs	8	8
Load voltage L+/L- permissible range	24V DC 20.4 V-28.8VDC	24V DC/24V-230V AC 20.4V-30V DC/20-250V AC
Output current for signal "1"	0.75A	2A
Output current for signal "0"	10□A	0mA
Aggregate current of outputs per group	3A	8A
Short-circuit protection of the output	No	No
cable length, shielded, max.	500 m	500 m
cable length, unshielded, max.	150 m	150 m
galvanic, isolation. digital outputs between the channels in groups of	Yes, Optocoupler 4	Yes, Relay 4
Pluggable I/O terminals	Yes	Yes
Current consumption from backplane bus DC 5 V, max	80 mA	80 mA
power loss	3 W	3 W
Dimension (W*H*D) , mm	71.5*80*62	71.5*80*62
Weight	About 150g	About 170g

Order No.	200 223-IBL22	200 223-IPL22
Number of digital inputs	16	16
Input voltage	24V DC	24V DC
Input voltage for signal "0"	0 to 5 V	0 to 5 V
Input voltage for signal "1"	15 to 30 V	15 to 30 V
Input current for signal "1" for standard inputs at "0" to "1"	5 mA 4.5 ms	5 mA
permissible quiescent current (2-wire BEROs), max	1 mA	1 mA
cable length, shielded, max.	500 m	500 m
cable length, unshielded, max.	300 m	300 m
Number of digital outputs	16	16
Load voltage L+/L- permissible range	24V DC 20.4 V-28.8 V	24V DC/24V-230V AC 20.4V-30V DC/20-250V AC
Output current for signal "1"	0.75A	2A
Output current for signal "0"	10 mA	0mA
Aggregate current of outputs per group	3A	8A
Short-circuit protection of the output	No	No
cable length, shielded, max.	500 m	500 m
cable length, unshielded, max.	150 m	150 m
galvanic, isolation. digital outputs between the channels in groups of	Yes, Optocoupler 4/4/8	Yes, Relay 4
Pluggable I/O terminals	Yes	Yes
Current consumption from backplane bus DC 5 V, max	160 mA	150 mA
power loss	6 W	6 W
Dimension (W×H×D) mm	138×80×62	138×80×62
Weight	About 270g	About 310g

SOFTLINK 200 High-density Module



SOFTLINK 200 high-density modules convert the levels of the external digital signals from the process into the internal signal level of the SOFTLINK 200, and also convert the internal signal level of the SOFTLINK 200 into the external signal level required for the process.

- Compatible with S7-200 system
- High-density with up to 32 channels
- Input/output LEDs for corresponding terminals

Order Data

	Order-No.
EM221, 32 inputs 24V DC	200 221-IBL22
EM222, 32 outputs 24V DC	200 222-IBL22
EM222, 32 relay outputs	200 222-IHL22

Technical Data

Order No.	200 221-IBL22	200 222-IBL22	200 222-IHL22
Number of digital inputs	32		
Input voltage	24 V		
Input voltage for signal "0"	0 to 5 V		
Input voltage for signal "1"	15 to 30 V		
Input current for signal "1"	4 mA		
for standard inputs at "0" to "1"	4.5 ms		
permissible quiescent current (2-wire BEROs), max	1 mA		
cable length, shielded, max.	500 m		
cable length, unshielded, max.	300 m		
galvanic, isolation. digital outputs between the channels in groups of	Yes, isolated , 8		
Number of digital outputs		32	32
Load voltage L+/L1		24V DC	24V
permissible range		20.4 V-28.8VDC	DC/24V-230AC 20.4-28.8VDC,20-250VAC
Output current for signal "1"		0.75A	2A
Output current for signal "0"		10□A	0mA
Aggregate current of outputs per group		6A	16A
Contact life			1.0×10E7
mechanical life			180000
Short-circuit protection of the output		No	No
cable length, shielded, max.		500 m	500 m
cable length, unshielded, max.		150 m	150 m
galvanic, isolation. Digital outputs between the channels in groups of		Yes, isolated 8	Yes , Relay 8
Pluggable I/O terminals	Yes	Yes	Yes
Current consumption from backplane bus DC5V, max	120 mA	180 mA	170 mA
power loss	3 W	6W	6W
Dimension (W×H×D mm)	138×80×62	138×80×62	138×80×62
Weight	About 100g	About 240g	About 400g

SOFTLINK 200 Analog Module



SOFTLINK 200 analog inputs convert the analog signals from the process into the internal signal level of the programmable controllers.

SOFTLINK 200 analog outputs convert the internal signal level of the programmable controllers into the analog signals required for the process.

- Compatible with S7-200 system
- Input/output LEDs for corresponding terminals
- Easy to install in an existing system

Order Data

	Order-No.
EM231, 4 inputs *12 bit	200 231-0HC22
EM232, 2 outputs *12 bit	200 232-0HB22
EM235, 4 inputs/1 outputs *12 bit	200 235-0KD22

Technical Data

Order No.	200 231-0HC22	200 232-0HB22	200 235-0KD22
Number of puts	4 analog inputs	2 analog outputs	4 analog inputs 1 analog outputs
Isolation	No	No	No
bipolar signals	-32,000 to 32,000	-32,000 to 32,000	-32,000 to 32,000
unipolar signals	0 to 32,000	0 to 32,000	0 to 32,000
power loss	2 W	2 W	2 W
from backplane bus DC 5 V, max	10 mA	10 mA	10 mA
from load voltage L+ (without load)	60 mA	70 mA	60 mA
Dimension(W×H×D) mm	71.5×80×62	46×80×62	71.5×80×62
Weight	About 160g	About 170g	About 170g
Number of inputs	4		4
Input voltage range	0-10V, 0-5V ±5V, ±2.5V		0~10V,0~5V,0~1V, 0~500mV, ±10V,±5V,±2.5V,±1V, ±500mV,±250mV,±10 0mV,±50mV, ±25mV
Input ranges (rated values) currents	0-20mA		0-20mA
permissible input frequency for voltage input(destruction limit), max.	30V DC		30V DC
permissible input current for current input (destruction limit), max.	32mA		32mA
creation value Analog	12 Bit		12 Bit
common mode voltage, max.	< 12V		< 12V
Load impedance	≥10M□		≥10M□
Number of outputs		2	1
Output ranges, voltage		-10 to +10 V	-10 to +10 V
Output ranges, current		0-20mA	0-20mA
Resolution		V-12 bits I/11 bits	V-12 bits I/11 bits
Accuracy		+/-0.5%	+/-0.5%
Output impedance		Voltage output 5000□ Current output 500□	Voltage output 5000□ Current output 500□

EM23 I

Analog Input Module

Thermocouple, Resistance Thermometer



EM23 I analog inputs convert the analog signals from the process into the internal signal level of the programmable controllers.

- Compatibility with S7-200
- Input LEDs for corresponding terminals

Order Data

	Order No.
EM23 I thermocouple input, 4 inputs	200 23 I-7PD22

Technical Data

Order No.	200 231-7PD22
Number of puts	4 thermocouple inputs
Isolation	No
Data format	-27648~27648
Power Loss	1.8 W
Current consumption	87 mA
Current consumption L+	60 mA
Voltage L+	20.4~28.8V DC
Common-Mode Voltage	120 V
Input Type	Thermocouple (any one)
	S, T, R, E, N, K, J
Temperature	0.1 □、0.1 □
Resistor	
Voltage	15 Bits + sign bit
Basic error	0.1% FS voltage
Repeatability	0.05% FS
Error at cold junction	±1.5 □
Refresh cycle	405 ms
Loop resistance	≤ 100 □
Length	100 m
Dimension(W×H×D) mm	71.2×80×62
Weight	About 210 g

PROFIBUS

RT131 Profibus Remote I/O Digital Input Module



SOFTLINK remote I/O is suitable for linking to a modular system. The RT131 module is able to bring the digital input signals from the field into the Profibus control system via DP net in a long distance.

- A combination of functions of module and slave
- Maximum flexibility with small size
- Cost efficiency

Order Data

Order No.	
RT131, 32 inputs 24VDC, floating	300 131-1BL01

Technical Data

Order No.	300 131-1BL01
Inputs	32
Input data	4 Byte
Input delay	3 ms
Power	
Voltage	24V DC
Input Voltage for “0”	0...5 V
Input Voltage for “1”	15...28.8 V
Input current for “1”	Approx.7 mA
Connect to 2 wire BERO	Max.1.5 mA
Communication protocol	
Bus protocol	PROFIBUS DP
Connector	RS 485 9pin SUB female Connector
Transmission rate	9.6K-12Mbit/s
Address	Adjustable 1~99
LED	
PW	Green
ER	Red
BF	Yellow
I/O	Green
Isolation	Isolation voltage 500 V
Surrounding air temperature	0...55°C
Degree of protection	IP20
Dimension (W×H×D) mm	155×105×52
Weight	Approx. 288 g

RT132 Profibus Remote I/O Digital Output Module



SOFTLINK remote I/O is suitable for linking to a modular system. The RT132 module is able to bring the digital output signals from the Profibus control system into the field via DP net in a long distance.

- A combination of the functions of module and slave
- Maximum flexibility with small size
- Cost efficiency

Order Data

Order No.	
RT132, 32 outputs	300 132-1BL01

Technical Data

Order No.	300 132-1BL01
Outputs	32
Output data	4 Byte
Power	
Voltage	24V DC
Connect to 2 wire BERO	max. 1.5 mA
Output current	1 A
Output current for each group	Max. 8 A
Communication protocol	
Bus protocol	PROFIBUS DP
Connector	RS 485 9pin SUB female Connector
Transmission rate	9.6K-12Mbit/s
Address	Adjustable 1~99
LED	
PW	Green
ER	Red
BF	Yellow
I/O	Green
Isolation	Isolation voltage 500 V
Surrounding air temperature	0...55°C
Degree of protection	IP20
Dimension (W×H×D) mm	155×105×52
Weight	Approx. 288 g

RT133 Profibus Remote I/O Digital Input/Output Module



SOFTLINK remote I/O is suitable for linking to a modular system. The RT133 module is able to bring the digital signals into or out of the Profibus control system via DP net in a long distance.

- A combination of the functions of module and slave
- Maximum flexibility with small size
- Cost efficiency

Order Data

	Order No.
RT133, 16 inputs/16 outputs	300 133-IBL01
RT133, 16 inputs/16 relay outputs	300 133-IPL01

Technical Data

Order No.	300 133-IBL01	300 133-IPL01
Inputs/outputs	16/16	16/16 relay
Input data	2 Byte	2 Byte
Output data	2 Byte	2 Byte
Input delay	3 ms	3 ms
Power		
rated Voltage	24V DC	24V DC
load voltage	24V DC	24V DC/24V-230VAC
Input voltage for "0"	0...5V	0...5V
Input voltage for "1"	15...28.8 V	15...28.8 V
Input current for "1"	7 mA	7 mA
Connect to 2 wire BERO	max.1.5 mA	max.1.5 mA
Output current	1 A	2 A
Output current for each group	max 8 A	max 16 A
Communication protocol		
Bus protocol	PROFIBUS DP	
Connector	RS 485 9pin SUB female Connector	
Transmission rate	9.6K-12Mbit/s	
Address	Adjustable 1~99	
LED		
PW	Green	
ER	Red	
BF	Yellow	
I/O	Green	
Isolation	Isolation voltage 500 V	
Surrounding air temperature	0...55°C	
Degree of protection	IP20	
Dimension (W×H×D) mm	155×105×52	
Weight	Approx. 288 g	

PROFIBUS Connector



The connectors are used to connect a PROFIBUS station to the PROFIBUS cable.

- Metalized housing
- 35°, 90° or 180° cable outlets
- With baudrate of up to 12 Mbaud
- Integrated terminal resistors
- Vertical outgoing cable suitable for easy connect
- Visual connection for easy check

Order Data

Order-No.	
90° cable outlet without progr.	300 972-BA1200
90° cable outlet with progr.	300 972-BB1200
90° cable outlet without progr., quick-connect	300 972-BA2000
90° cable outlet with progr., quick-connect	300 972-BB2000
180° cable outlet without progr.	300 972-BA3000

PROFIBUS Connector Opto-isolator



PROFIBUS Connector, with opto-isolator

Due to the built-in RS485 chip and high-speed optical isolator, PROFIBUS connector with opto-isolator has a strong drive, especially suitable for tougher electromagnetic environment (especially with the communication of converters), for the opto-isolator avoids the damage of COM port made by PD (potential difference) in the network.

The PROFIBUS connector with isolator can completely replace conventional connectors with the same wiring.

Order Data

Order No.	
90° cable outlet without progr., opto-isolator	300 972 – BA5000

Easy Angle Profibus Connector



SOFTLINK Easy Angle Profibus connectors are used to connect a PROFIBUS station to the PROFIBUS cable.

- Metalized housing
- Combination of 35° and 90° cable outlets
- Visual connection for easy check

Order Data

	Order No.
EasyAngle, without progr.	300 972 – BA8000
EasyAngle, with progr.	300 972 – BB8000
EasyAngle, without progr., diagnostic LEDs	300 972 – BA9000
EasyAngle, with progr., diagnostic LEDs	300 972 – BB9000

Profinet Connector



SOFTLINK Profinet connectors are used to connect a PROFINET station to the PROFINET cable.

- Metalized housing
- Integrated RJ45 interface
- Quick-connect
- Visual connection for easy check

Order Data

	Order No.
Profinet connectors	300 901-1BB10

Cable (not available yet)



Order Data

	Order No.
Profibus DP cable, purple	300 830-0EH10
Profibus DP flexible cable, light blue	300 830-3EH10
Profibus PA cable, black	300 830-5FH10
Profinet cable	300 840-2AH10
Ethernet cable, green	300 850-0AH10
Fiber Optic, black	300 820-5AH10

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