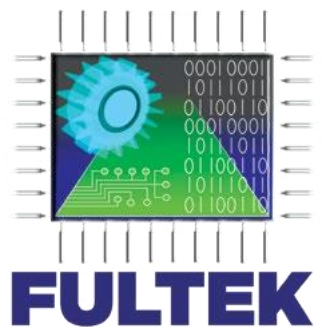
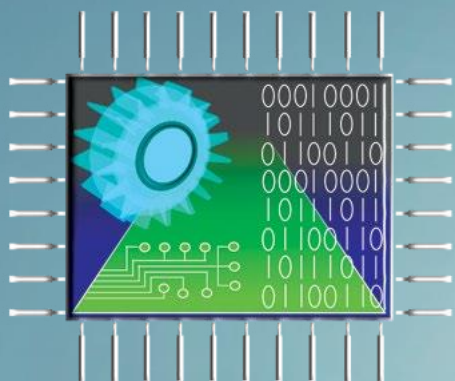




# INDUSTRIAL AUTOMATION PRODUCTS Price List | 2024

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AUTOMATION PRODUCTS  
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# PLC **FULMATIC** **7**



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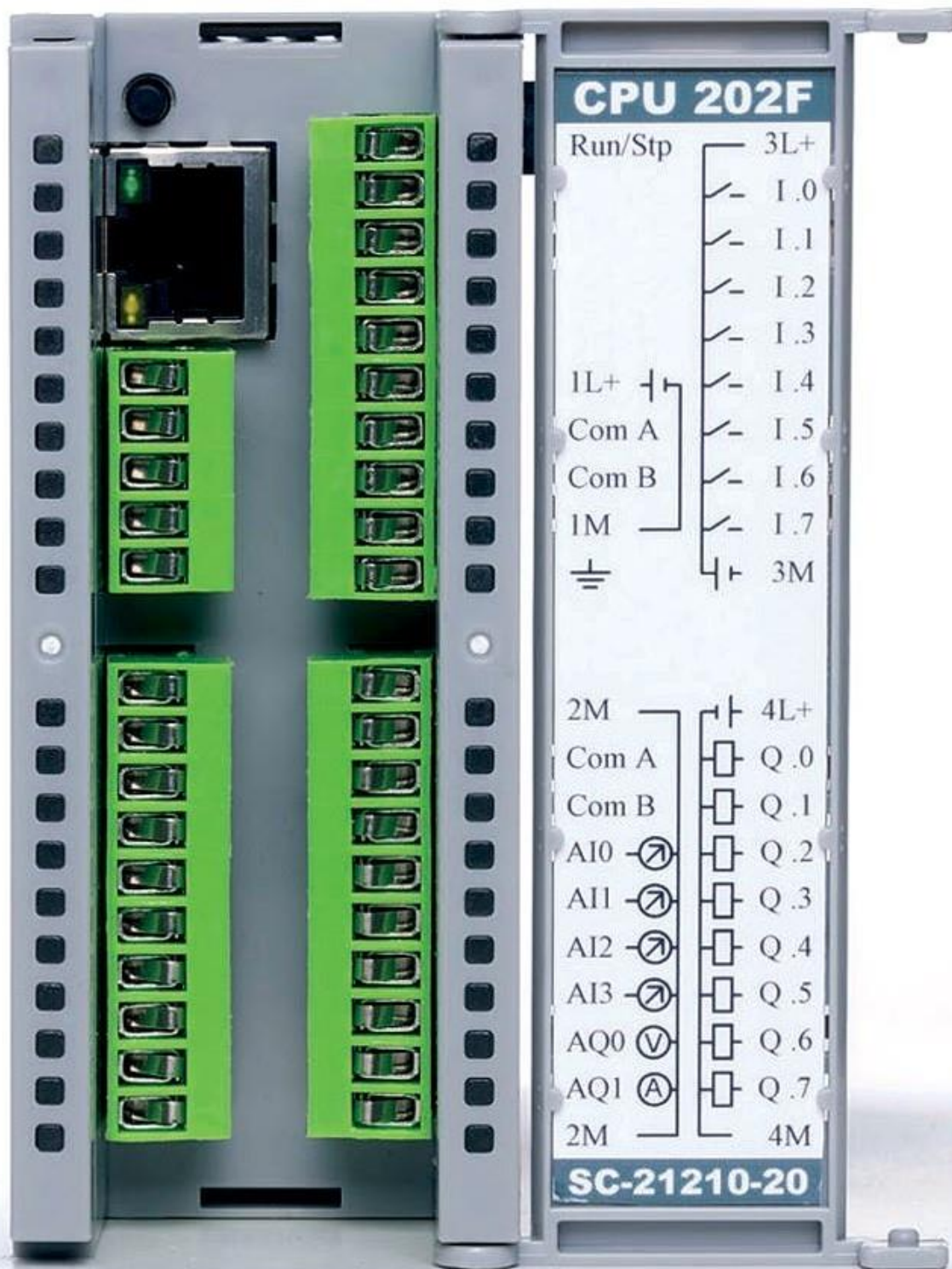
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## GENERAL FEATURES

**Fulmatic 7 – Series PLCs** are the programmable control devices which are designed according to the automation needs by considering the tough conditions of the industry. **Fulmatic 7 – Series PLCs** are offered with 2 different memory options, 32KB and 115KB. All PLCs include **Ethernet**, **Modbus TCP** and minimum 1 RS485 **Modbus RTU** connection as well as webserver feature. In Fulmatic PLCs, the entire memory area can be used for program memory or permanent type variables (data blocks). In addition, **Flag (1024 bytes)** is available as a temporary variable. Inputs (Max bytes) and outputs (Max bytes) that are not connected to the PLC as hardware can also be used as temporary variables.

Fulmatic 7 - Silver Series PLCs can be programmed with the ladder method through the Speed Plc program. For detailed information, visit our website ([www.fultek.com.tr](http://www.fultek.com.tr)). Although the Speed Plc program is paid for other platforms, you can use it for free with Fultek branded PLCs.



# HARDWARE

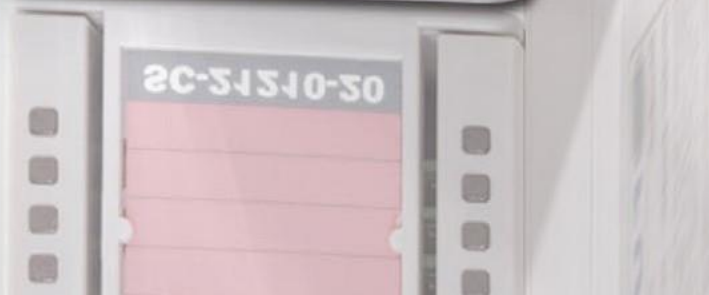
Name	Order Code	Memory	Web Server	Ethernet	Serial Port	Digital Input	Digital Output	Analog Input	Analog Ouput
CPU 100	SC-10808-00-00	32 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x 20 KHz. 0.5 Amp.	No	No
CPU 100F	SC-10808-20-00	32 Kb.	Yes	Yes	1x Rs485	8x 200 KHz.	8x 655KHz. 0.1 Amp.	No	No
CPU 100R	SC-10808-40-00	32 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x Relay 2 Amp.	No	No
CPU 101	SC-11410-00-00	32 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x 20 KHz. 0.5 Amp.	6x 12 Bit.	2x 12 Bit.
CPU 101F	SC-11410-20-00	32 Kb.	Yes	Yes	1x Rs485	8x 200 KHz.	8x 655KHz. 0.1 Amp.	6x 12 Bit.	2x 12 Bit.
CPU 101R	SC-11410-40-00	32 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x Relay 2 Amp.	6x 12 Bit.	2x 12 Bit.
CPU 102	SC-11210-00-00	32 Kb.	Yes	Yes	2x Rs485	8x 50 KHz.	8x 20 KHz. 0.5 Amp.	4x 12 Bit.	2x 12 Bit.
CPU 102F	SC-11210-20-00	32 Kb.	Yes	Yes	2x Rs485	8x 200 KHz.	8x 655KHz. 0.1 Amp.	4x 12 Bit.	2x 12 Bit.
CPU 102R	SC-11210-40-00	32 Kb.	Yes	Yes	2x Rs485	8x 50 KHz.	8x Relay 2 Amp.	4x 12 Bit.	2x 12 Bit.
CPU 200	SC-20808-00-00	115 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x 20 KHz. 0.5 Amp.	No	No
CPU 200F	SC-20808-20-00	115 Kb.	Yes	Yes	1x Rs485	8x 200 KHz.	8x 655KHz. 0.1 Amp.	No	No
CPU 200R	SC-20808-40-00	115 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x Relay 2 Amp.	No	No
CPU 201	SC-21410-00-00	115 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x 20 KHz. 0.5 Amp.	6x 12 Bit.	2x 12 Bit.
CPU 201F	SC-21410-20-00	115 Kb.	Yes	Yes	1x Rs485	8x 200 KHz.	8x 655KHz. 0.1 Amp.	6x 12 Bit.	2x 12 Bit.
CPU 201R	SC-21410-40-00	115 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x Relay 2 Amp.	6x 12 Bit.	6x 12 Bit.
CPU 202	SC-21210-00-00	115 Kb.	Yes	Yes	2x Rs485	8x 50 KHz.	8x 20 KHz. 0.5 Amp.	4x 12 Bit.	2x 12 Bit.
CPU 202F	SC-21210-20-00	115 Kb.	Yes	Yes	2x Rs485	8x 200 KHz.	8x 655KHz. 0.1 Amp.	4x 12 Bit.	2x 12 Bit.
CPU 202R	SC-21210-40-00	115 Kb.	Yes	Yes	2x Rs485	8x 50 KHz.	8x Relay 2 Amp.	4x 12 Bit.	2x 12 Bit.
CPU 301	SC-31410-00-00	115 Kb.	Yes	Yes	1x Rs485	8x 50 KHz.	8x 20 KHz. 0.5 Amp.	6x 12 Bit.	2x 12 Bit.



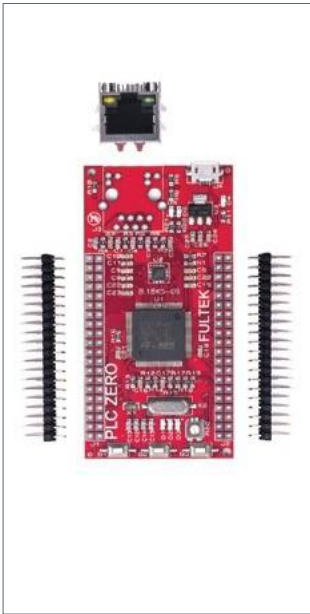
## Features:

- The program can be installed while the PLC is running. Installations can be made by blocks or completely. In the case of complete installations, the PLC must be switched to stop state.
- The reasons for switching the PLC to STOP state are monitored in the diagnostics section.
- High accuracy RTC(Real time clock) is standard for all models. It also works 30 days without energy supply. Battery does not used so it does not requires replacing the battery. Accuracy 3 seconds / Month @ 25 °C
- The entire PLC memory can be used as ladder code or as persistent variables. You can use the 117760 Byte or 58880 Word variable in a single PLC.
- With additional modules, the 8192 Digital input or 512 analog input can also be extended to 8192 digital outputs or 512 analog outputs.
- Thanks to its rack structure, 63 additional modules can be added to the PLC. 4 racks can be made with rack connection module.
- Up to 32 Remote IO Cpu modules can be expanded. 4 racks can be added to each Remote IO Cpu module.
- The maximum number of modules available in a rack is 16. When 1024 modules are used, the PLC cycle time will still be below 5 milliseconds.
- Single PLC can respond to 17 devices simultaneously as 5 Modbus Tcp/lp, 2 Modbus Rtu and 10 web client. At the same time, each device can read/write up to 256 bytes long data 60 times per second. The total duration of the query/response is about 16 milliseconds. At this time, the PLC cycle time will still be less than one millisecond.
- 63 Rs232 or Rs485 communication modules can be connected to a single PLC. Each module has two serial ports. In this way, 126 serial ports can be used at the same time.
- With a single PLC, 256 automatic PID and 256 PWM control can be made. In addition, with the 8-channel Motion module, 256 of 100 KHz PW or PTO outputs can be used in the single PLC.
- There are 256 software counter commands in one PLC. In addition, with the 8 channel counter(Motion) module, 256 units of 100 KHz counters can be used in single PLC.
- A single PLC has 256 timers with a resolution of 1 millisecond. The time-based interrupt block allows you to create thousands of software-based timers.
- You can create 256 program blocks and 256 function blocks in one PLC. Each block can have 32 networks. You can write 256 commands to each network.
- Function blocks can work with a pre-loaded parameter. For example, you can prepare a function block for motor control and call this block differently for thousands of motors. For each call, you just need to assign the variables of the respective motor.

- You can create 256 Data blocks in a single PLC. A data block can have a maximum length of 1024 bytes. DB0 is a 1024 byte length system data block. The first 345 bytes are used by the system. The other 679 Bytes are dedicated to your use. Program installation, PLC reset, firmware update or any other way DB0 is never deleted.
- The powerful Ladder compiler will compile almost any code you prepare. Restrictive situations do not occur, such as simple PLCs, such that input is not available after an output or output on each line.
- You can monitor the energy flow and variable values very quickly in the online ladder block monitoring screen. From this screen you can change the values of the variables.
- All models have 512Kb webserver space. All kinds of files can be stored in this field. You can also use the PLC program to store the user manual or project images. You can access it encrypted and unencrypted. Files uploaded to the Webserver will only be stored in the PLC and no other servers are needed. Clients over the local network or the Internet can access these files. You can upload large image files to different servers for using webserver's memory efficiently.
- The hardware and safety features of the Fulmatic 7 Series PLCs are also at the highest level. All terminal connectors are protected. If 220-380 volts are not delivered incorrectly, the PLC will not be damaged. With 24 Volt you can connect all input outputs upside down, straight, short circuit or all other ways. Most will not work. You can even select analog inputs as 0-10 volts and use them as digital inputs with 24 volts. When 0-20 Ma is selected, the protection will be activated.
- Fulmatic 7 PLCs are capable of updating firmware via ethernet. In this way, you can get benefits of all updates. As with some PLCs, you will never see the message "This version cannot program this PLC". Each update will be available in old PLCs as well.
- Fulmatic 7 PLCs are guaranteed for 2 years. Supply fails at 220 or 380 volts, water exposure or breakage with physical impacts is not covered by the warranty. Apart from these, we will only ask how its failed for improving our measures.

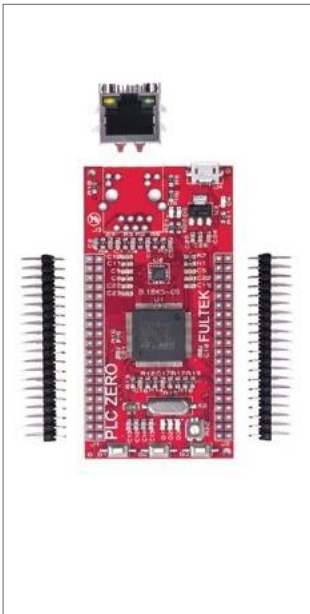


CPU MODULES



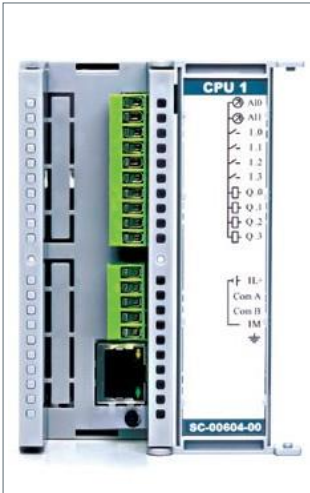
CPU ZERO

Order Code	Description	Price (USD)
SC-10808 00-00	<p>PLC development board. All pins are 3.3 v. and unprotected. You can use by learning PLC programming or automation project with IO shield board(you must make the IO shield yourself) or you can use STM32F407 development board include ethernet. Power 3.3 – 5 v. from usb. Total 42 IO on board. 3 button I 0.0 – I 0.2, 3 led Q 0.0 – Q 0.2, 1 Trimpot AI 0 on board. This product has no warranty and no discounts.</p> <p>Features when used as PLC: 115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 2 piece RS485 serial port, Modbus RTU, 8 piece 200 KHz digital input and 8 piece 655 KHz digital output, 8 piece 12 Bit Analog input, 2 piece 12 Bit Analog output. 16 piece selectable digital inputs/outputs.</p>	30



CPU STM32

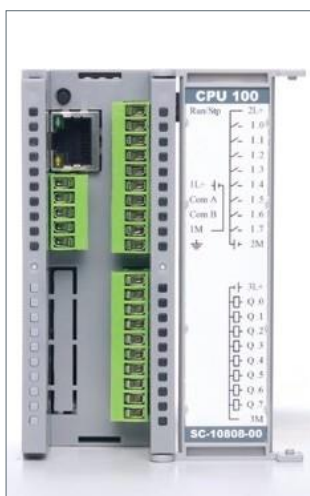
Order Code	Description	Price (USD)
SC-03210-00-80	<p>It has the same features as PLC Zero. The only difference is that it has 2048 bytes of program memory.</p>	15



CPU ONE

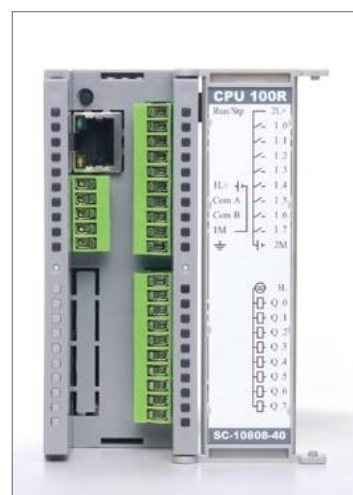
Order Code	Description	Price (USD)
SC-00604-00-00	<p>32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 4 piece 50 KHz digital input and 4 piece 40 KHz 0.5 Ampere digital output, 2 piece 0-10 V or 0-20 MA 12 Bit Analog input. Analog inputs can be used as digital input.</p>	90





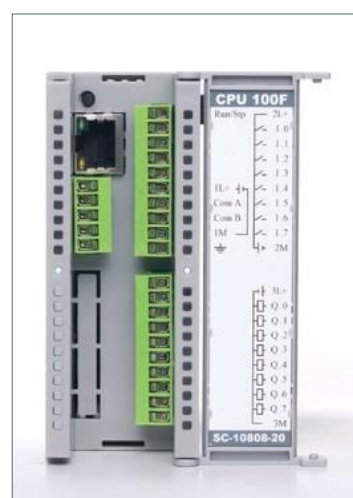
## CPU 100

Order Code	Description	Price (USD)
SC-10808-00-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 20 KHz 0.5 Ampere digital output.	100



## CPU 100R

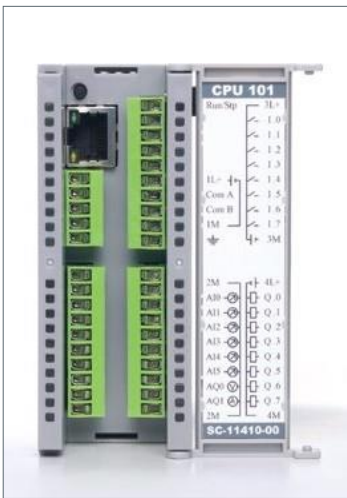
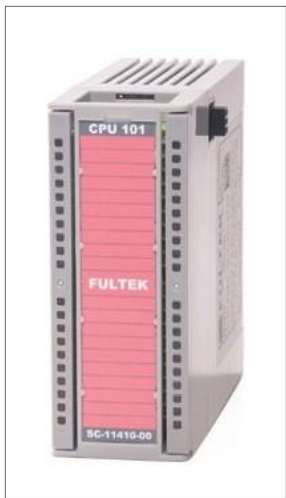
Order Code	Description	Price (USD)
SC-10808-40-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 2.00 Ampere relay output.	110



## CPU 100F

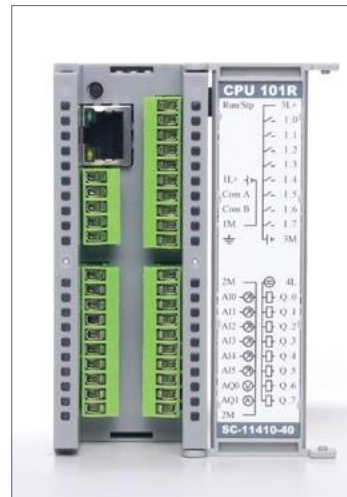
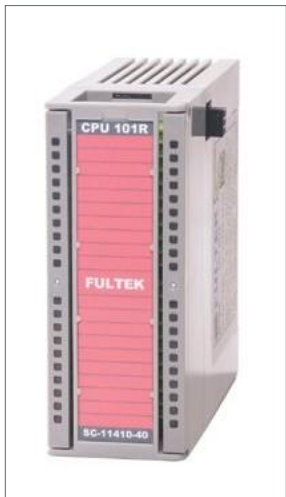
Order Code	Description	Price (USD)
SC-10808-20-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 200 KHz digital input and 8 piece 655 KHz 0.1 Ampere digital output.	150

CPU MODULES



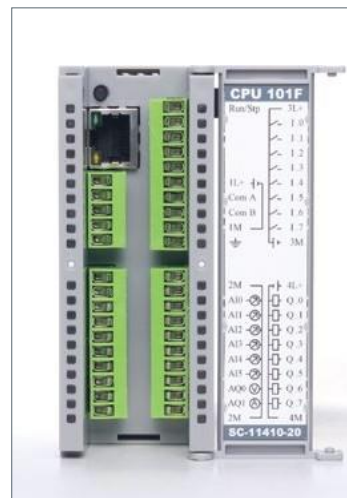
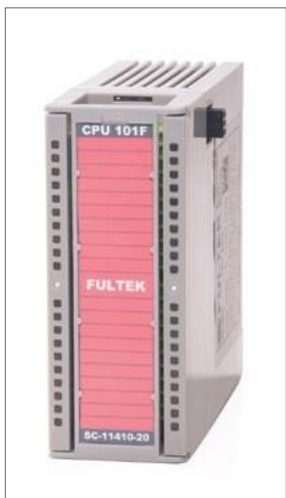
CPU 101

Order Code	Description	Price (USD)
SC-11410-00-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 20 KHz 0.5 Ampere digital output, 6 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	150



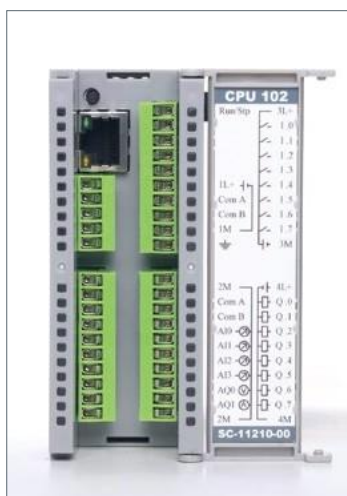
CPU 101R

Order Code	Description	Price (USD)
SC-11410-40-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 2.00 Ampere relay output, 6 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	160



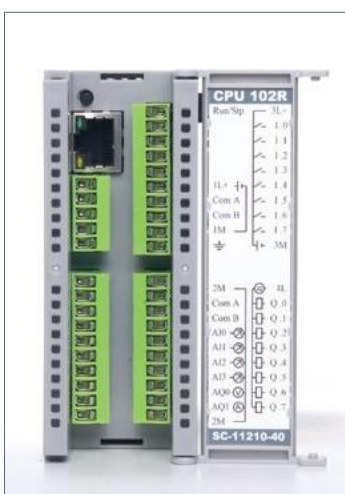
CPU 101F

Order Code	Description	Price (USD)
SC-11410-20-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 200 KHz digital input and 8 piece 655 KHz 0.1 Ampere digital output, 6 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	200



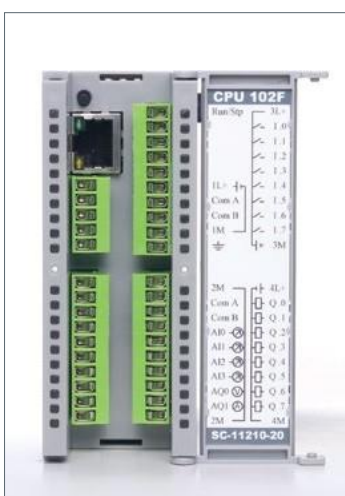
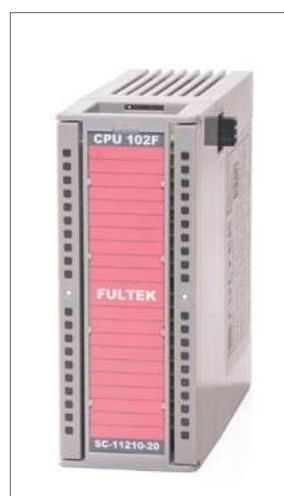
## CPU 102

Order Code	Description	Price (USD)
SC-11210-00-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 2 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 20 KHz 0.5 Ampere digital output, 4 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	175



## CPU 102R

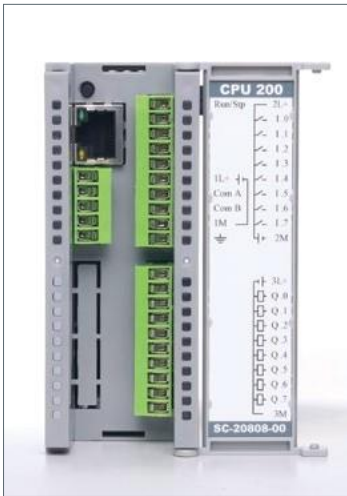
Order Code	Description	Price (USD)
SC-11210-40-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 2 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 2.00 Ampere relay output, 4 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	185



## CPU 102F

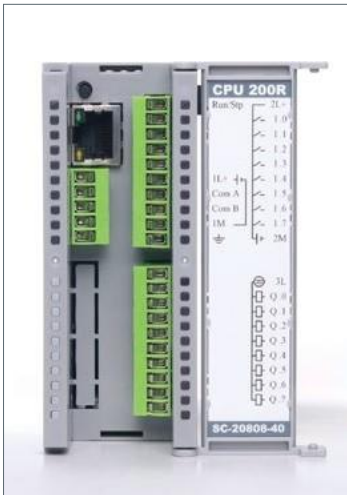
Order Code	Description	Price (USD)
SC-11210-20-00	32 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 2 piece RS485 serial port, Modbus RTU, 8 piece 200 KHz digital input and 8 piece 655 KHz 0.1 Ampere digital output, 4 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	225

CPU MODULES



CPU 200

Order Code	Description	Price (USD)
SC-20808-00-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 20 KHz 0.5 Ampere digital output.	200



CPU 200R

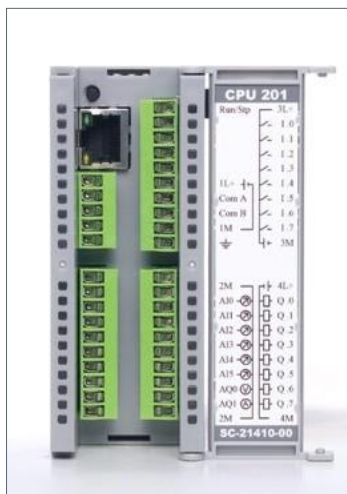
Order Code	Description	Price (USD)
SC-20808-40-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 2.00 Ampere relay output.	210



CPU 200F

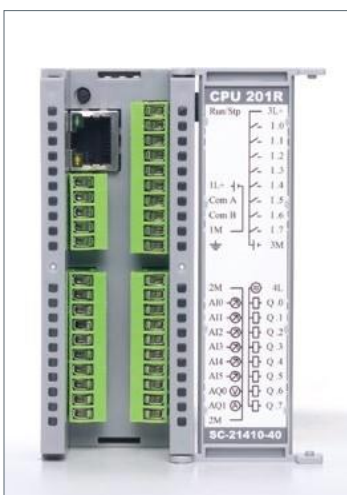
Order Code	Description	Price (USD)
SC-20808-20-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 200 KHz digital input and 8 piece 655 KHz 0.1 Ampere digital output.	250





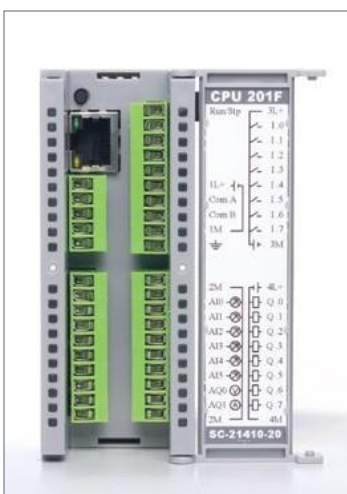
## CPU 201

Order Code	Description	Price (USD)
SC-21410-00-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 20 KHz 0.5 Ampere digital output, 6 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	250



## CPU 201R

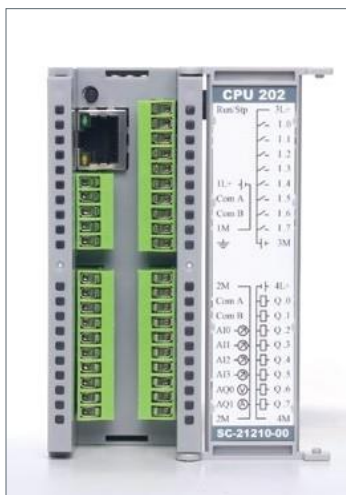
Order Code	Description	Price (USD)
SC-21410-40-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 2.00 Ampere relay output, 6 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	260



## CPU 201F

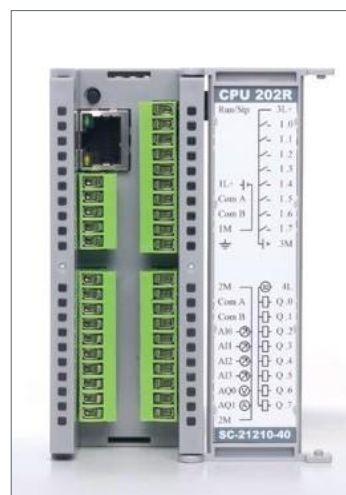
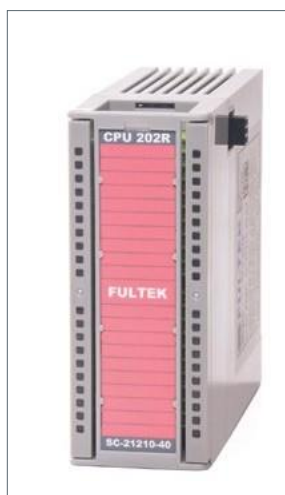
Order Code	Description	Price (USD)
SC-21410-20-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 200 KHz digital input and 8 piece 655 KHz 0.1 Ampere digital output, 6 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	300

## CPU MODULES



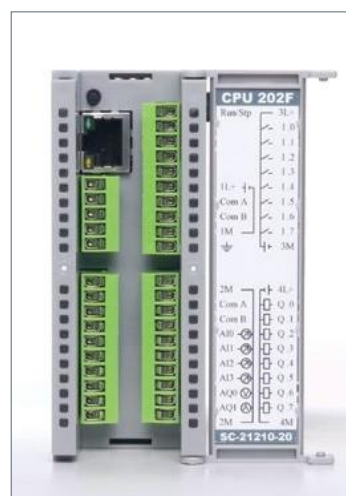
### CPU 202

Order Code	Description	Price (USD)
SC-21210-00-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 2 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 20 KHz 0.5 Ampere digital output, 4 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	275



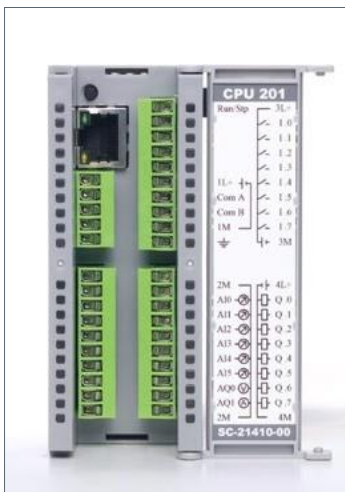
### CPU 202R

Order Code	Description	Price (USD)
SC-21210-40-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 2 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 2.00 Ampere relay output, 4 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	285



### CPU 202F

Order Code	Description	Price (USD)
SC-21210-20-00	115 KB program memory, 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 2 piece RS485 serial port, Modbus RTU, 8 piece 200 KHz digital input and 8 piece 655 KHz 0.1 Ampere digital output, 4 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	325



## CPU 301

Order Code	Description	Price (USD)
SC-31410-00-00	115 KB program memory, 4GB SD card for data logging. 1 piece 10/100 MBit full duplex Ethernet, Modbus TCP, web server with 512KB file space, 1 piece RS485 serial port, Modbus RTU, 8 piece 50 KHz digital input and 8 piece 20 KHz 0.5 Ampere digital output, 6 piece 0-10 V or 0-20 MA 12 Bit Analog input, 1 piece 0-10 V and 1 piece 0-20 MA 12 Bit Analog output.	500



## REMOTE CPU

Order Code	Description	Price (USD)
SM-90000-00-00	Can be add 32 REMOTE IO CPU modules on the Fulmatic 7 PLCs. Each REMOTE IO CPU module can be equipped four rack. Can be add 16 modules for each rack. Total 60 IO module can be equipped for each REMOTE IO CPU. The main CPU reads and writes input / output values from all REMOTE IO CPU modules simultaneously with the Ethernet UDP protocol. CP modules cannot be added to REMOTE IO CPU modules.	100



```
mirror_object to mirror  
mirror_mod.mirror_object
```

```
operation == "MIRROR_X":  
    mirror_mod.use_x = True  
    mirror_mod.use_y = False  
    mirror_mod.use_z = False  
    operation == "MIRROR_Y":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = True  
    mirror_mod.use_z = False  
    operation == "MIRROR_Z":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = False  
    mirror_mod.use_z = True
```

```
selection at the end - add  
mirror_ob.select= 1  
mirror_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier))  
mirror_ob.select = 0  
bpy.context.selected_objects  
data.objects[one.name].select
```

```
print("please select exactly")
```

--- OPERATOR CLASSES ---

```
types.Operator):  
    X mirror to the selected  
    object.mirror_mirror_x"  
    mirror X"
```

```
context):  
    object is not
```

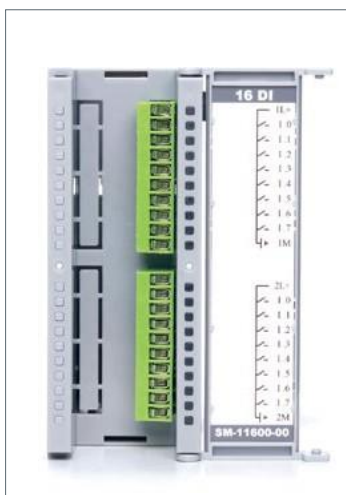
16DI/16R

1L+   
1.0 -   
1.1 -   
1.2 -   
1.3 -   
1.4 -   
1.5 -   
1.6 -   
1.7 -   
1M + 

2L+   
1.0 -   
1.1 -   
1.2 -   
1.3 -   
1.4 -   
1.5 -   
1.6 -   
1.7 -   
2M + 

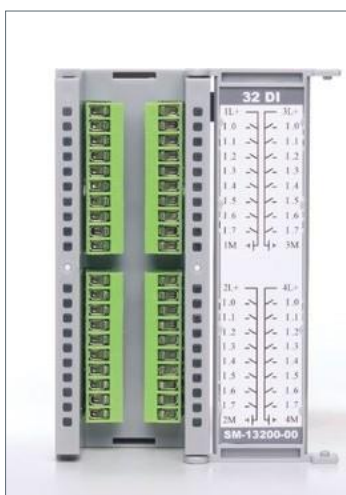
SM-31616-6





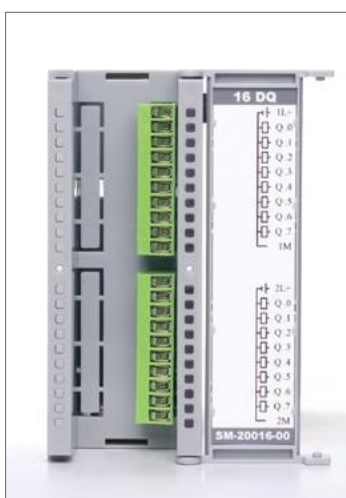
## 16 DI

Order Code	Description	Price (USD)
SM-11600-00	16 channel optical isolated digital input module. Supply voltage 20-28 V. DC. The maximum frequency is 50 KHz.	60



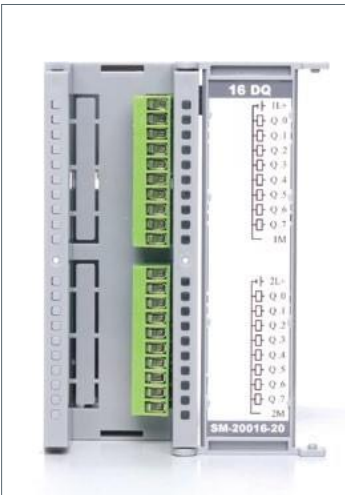
## 32 DI

Order Code	Description	Price (USD)
SM-13200-00	32 channel optical isolated digital input module. Supply voltage 20-28 V. DC. The maximum frequency is 50 KHz.	100



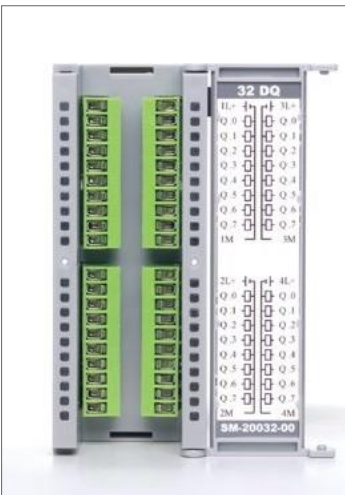
## 16 DQ

Order Code	Description	Price (USD)
SM-20016-00	16 channel optical isolated digital output module. Supply voltage 20-28 V. DC. Output current 0.5 Amp. Maximum frequency 40 KHz.	80



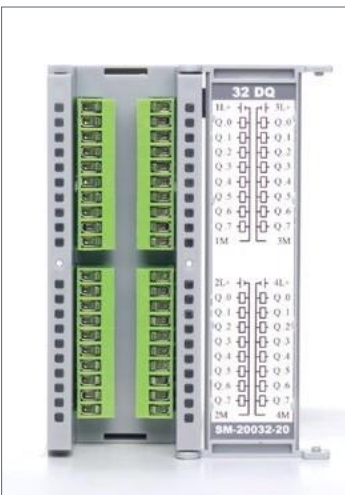
## 16 DQ2A

Order Code	Description	Price (USD)
SM-20016-20-00	16 channel optical isolated digital output module. Supply voltage 20-28 V. DC. Output current 2.0 Amp. Maximum frequency 30 KHz.	100



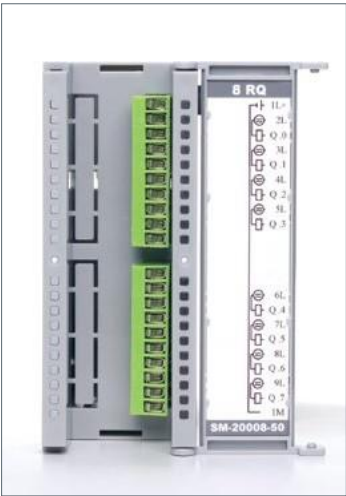
## 32 DQ

Order Code	Description	Price (USD)
SM-20032-00-00	32 channel optical isolated digital output module. Supply voltage 20-28 V. DC. Output current 0.5 Amp. Maximum frequency 40 KHz.	135



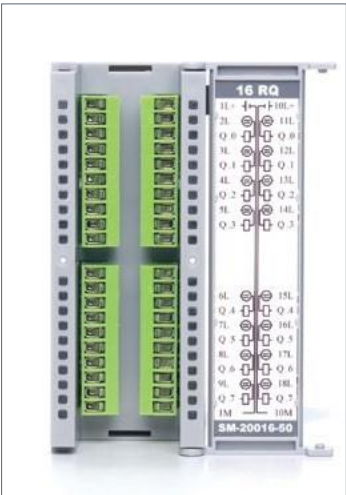
## 32 DQ 2A

Order Code	Description	Price (USD)
SM-20032-20-00	32 channel optical isolated digital output module. Supply voltage 20-28 V. DC. Output current 2.0 Amp. Maximum frequency 30 KHz.	165



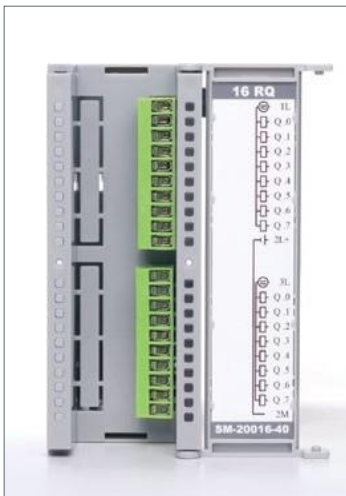
8 RQ MC

Order Code	Description	Price (USD)
SM-20008-50-00	8 Channel relay output module. Supply voltage 20-28 V. DC. Contacts 250 V. 2.0 Amp. All contacts are free terminal.	60



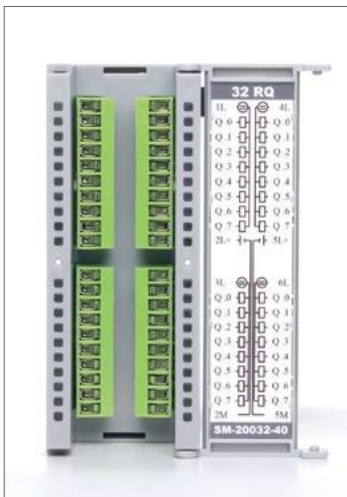
16 RQ MC

Order Code	Description	Price (USD)
SM-20016-50-00	16 Channel relay output module. Supply voltage 20-28 V. DC. Contacts 250 V. 2.0 Amp. All contacts are free terminal.	100



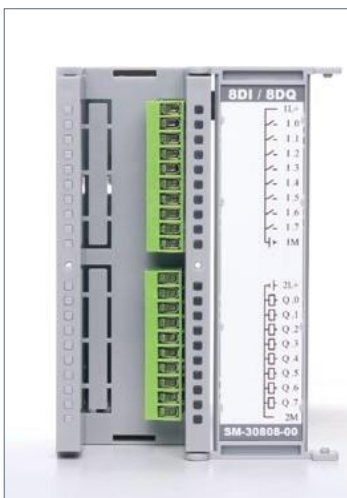
16 RQ SC

Order Code	Description	Price (USD)
SM-20016-40-00	16 Channel relay output module. Supply voltage 20-28 V. DC. Contacts 250 V. 2.0 Amp. The maximum current is 10 amp per terminal group.	90



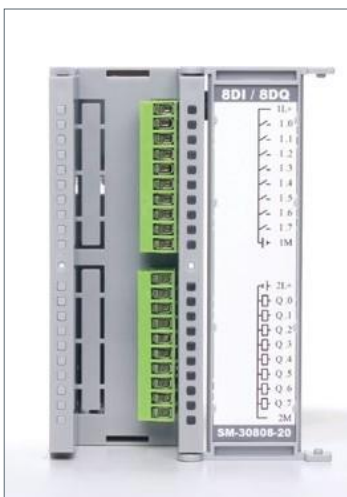
## 32 RQ SC

Order Code	Description	Price (USD)
SM-20032-40-00	32 Channel relay output module. Supply voltage 20-28 V. DC. Contacts 250 V. 2.0 Amp. The maximum current is 10 amp per terminal group.	150



## 8DI/8DQ

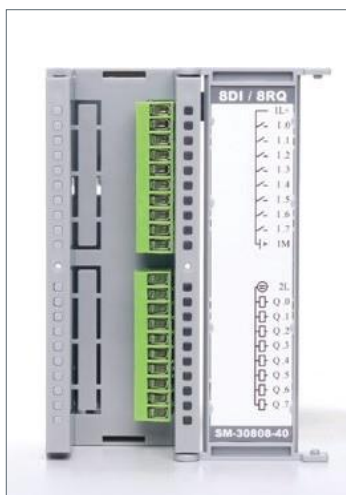
Order Code	Description	Price (USD)
SM-30808-00-00	8 channel optical isolated digital input and 8 channel optical isolated digital output module. Supply voltage 20-28 V. DC. Digital output current 0.5 Amp. Maximum input frequency 50 KHz, output frequency 40 KHz.	70



## 8DI/8DQ 2A

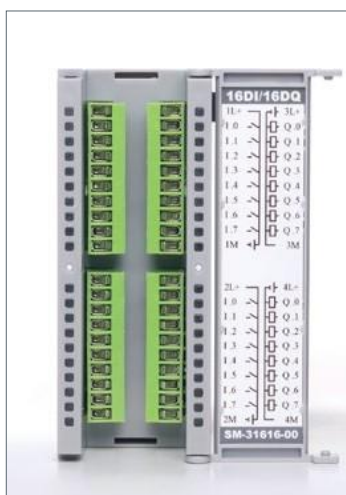
Order Code	Description	Price (USD)
SM-30808-20-00	8 channel optical isolated digital input and 8 channel optical isolated digital output module. Supply voltage 20-28 V. DC. Digital output current 2.0 Amp. 10 amp maximum current for output terminal group. The maximum input frequency is 50 kHz, the output frequency is 30 KHz.	80





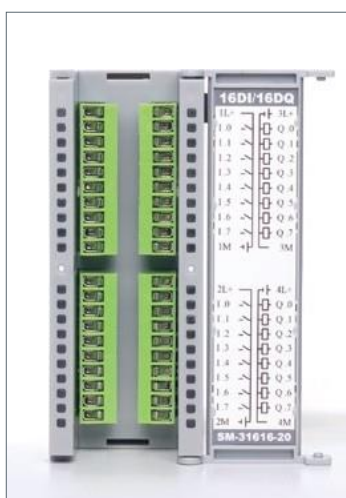
## 8DI/8RQ

Order Code	Description	Price (USD)
SM-30808-40-00	8 channel optical isolated digital input and 8 channel relay output module. Supply voltage 20-28 V. DC. Contacts 250 V 2.0 Amp. 10 amp for maximum current output terminal group. Maximum input frequency 50 KHz.	75



## 16DI/16DQ

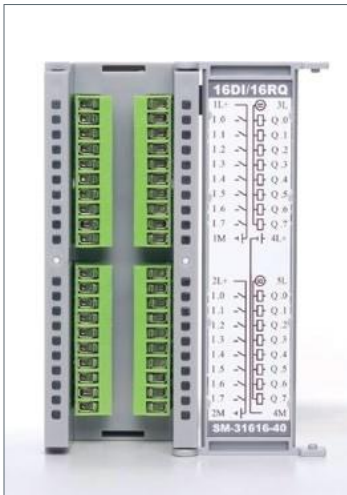
Order Code	Description	Price (USD)
SM-31616-00-00	16 channel optical isolated digital input and 16 channel optical isolated digital output module. Supply voltage 20-28 V. DC. Digital output current 0.5 Amp. Maximum input frequency 50 KHz, output frequency 40 KHz.	120



## 16DI/16DQ 2A

Order Code	Description	Price (USD)
SM-31616-20-00	16 channel optical isolated digital input and 16 channel optical isolated digital output module. Supply voltage 20-28 V. DC. Digital output current 2.0 Amp. 10 amp maximum current for output terminal group. The maximum input frequency is 50 kHz, the output frequency is 30 KHz.	140





## 16DI/16RQ

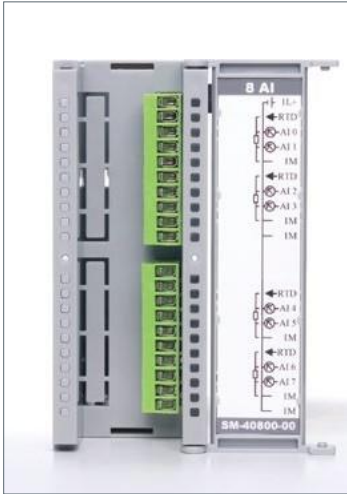
Order Code	Description	Price (USD)
SM-31616-40-00	16 channel optical isolated digital input and 16 channel relay output module. Supply voltage 20-28 V. DC. Contacts 250 V 2.0 Amp. 10 amp for maximum current output terminal group. Maximum input frequency 50 KHz.	130





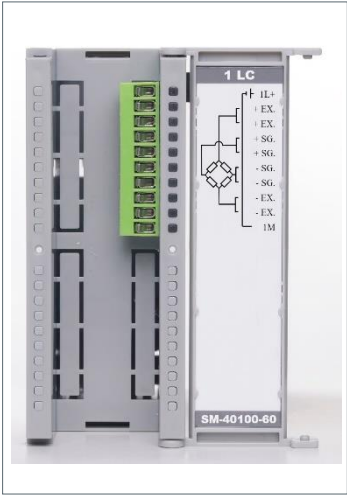
4 AI

Order Code	Description	Price (USD)
SM-40400-00-00	4 Channel analog input module (2 channels when Pt100, PT1000 and Resistor). Signal types: 0-10 V. / 0-20 mA / PT100 / PT1000 / Resistor / Thermocouple B, E, J, K, N, R, S, T. Resolution 16 bit. Minimum 1000 samples per second.	100



8 AI

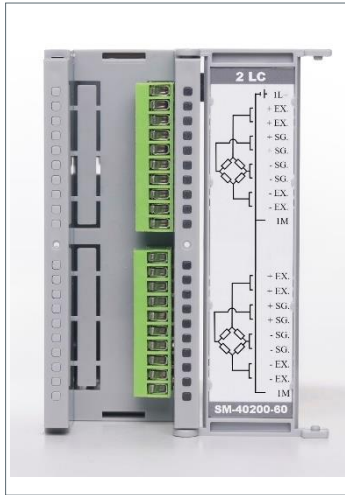
Order Code	Description	Price (USD)
SM-40800-00-00	8 Channel analog input module (4 channels when Pt100, PT1000 and Resistor). Signal types: 0-10 V. / 0-20 mA / PT100 / PT1000 / Resistor / Thermocouple B, E, J, K, N, R, S, T. Resolution 16 bit. Minimum 500 samples per second.	150



1 LC

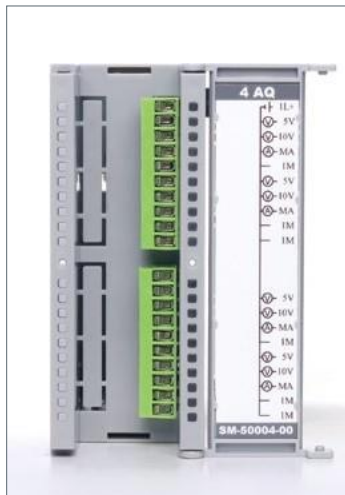
Order Code	Description	Price (USD)
SM-40100-60-00	1 Channel Loadcell input module. -19mv / + 19mv, resolution 20 bit. 80 samples per second. Maximum 16 Loadcells (350 ohm) can be connect.	100





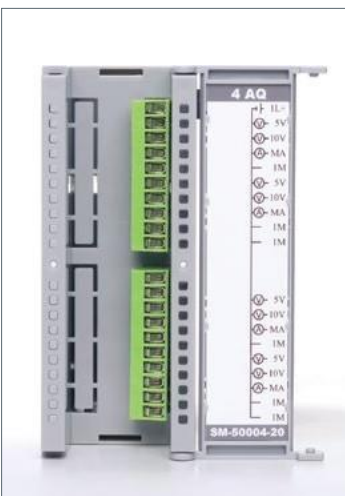
## 2 LC

Order Code	Description	Price (USD)
SM-40200-60-00	2 Channel Loadcell input module. -19mv / + 19mv, resolution 20 bit. 80 samples per second. Maximum 8 Loadcells (350 ohm) can be connect to each channel.	150



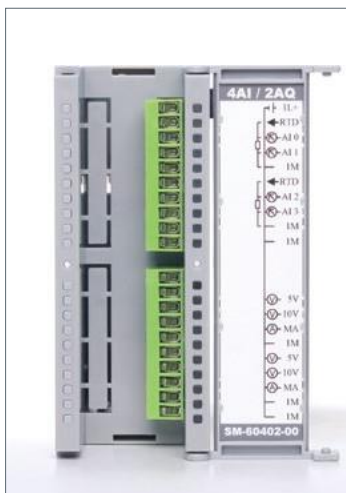
## 4 AQ 12B

Order Code	Description	Price (USD)
SM-50004-00-00	4 Channel 12 bit analog output module. Each channel have three outputs 0-5 V / 0-10 V / 0-20 mA. All outputs can be used at the same time. The maximum current for voltage output channels is max. 20 mA. 50000 samples per second.	110



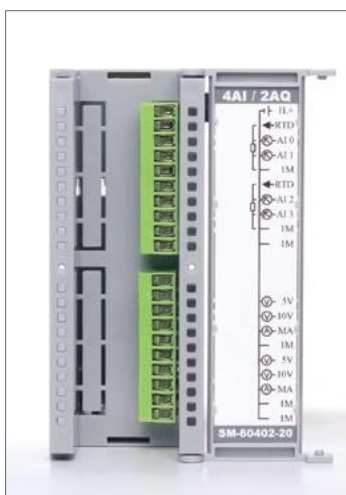
## 4 AQ16B

Order Code	Description	Price (USD)
SM-50004-20-00	4 Channel 16 bit analog output module. Each channel have three outputs 0-5 V / 0-10 V / 0-20 mA. All outputs can be used at the same time. The maximum current for voltage output channels is max. 20 mA. 50000 samples per second.	150



## 4AI/2AQ 12B

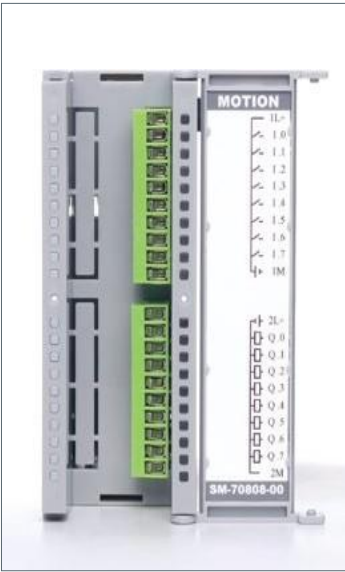
Order Code	Description	Price (USD)
SM-60402-00-00	4 channel 16 bit analog input (2 channels when Pt100, PT1000 and Resistor) and 2 channels 12 bit analog output module. Analog input signal types: 0-10 V. / 0-20 MA. / PT100 / PT1000 / Resistor / Thermocouple B, E, J, K, N, R, S, T. Each analog output channel have three outputs 0-5 V / 0-10 V / 0-20 mA. All outputs can be used at the same time. The maximum current for voltage output channels is max. 20 mA. 1000 samples per second.	150



## 4AI/2AQ 16B

Order Code	Description	Price (USD)
SM-60402-20-00	4 channel 16 bit analog input (2 channels when Pt100, PT1000 and Resistor) and 2 channels 16 bit analog output module. Analog input signal types: 0-10 V. / 0-20 MA. / PT100 / PT1000 / Resistor / Thermocouple B, E, J, K, N, R, S, T. Each analog output channel have three outputs 0-5 V / 0-10 V / 0-20 mA. All outputs can be used at the same time. The maximum current for voltage output channels is max. 20 mA. 1000 samples per second.	170

Special **Module**



**MOTION**

Order Code	Description	Price (USD)
SM-70808-00-00	8 channel galvanic isolated digital input and 8 channel galvanic isolated digital output module. DIGITAL INPUTS: Maximum frequency single channel 120 KHz., Two channels 100 KHz, three channels 80 KHz, eight channels 45 KHz. Measurement Type: Counter rising edge, falling edge. Encoder: AB, ABZ, 2X and 4X. Frequency measurement and period measurement. DIGITAL OUTPUTS: Digital output, PWM 655 KHz and PTO. When the selected PTO one channel or two channels in the same group 100 KHz, two channels or four channels in the two group 70 KHz, all outputs 40 KHz. Output current 0.1 Amp.	200

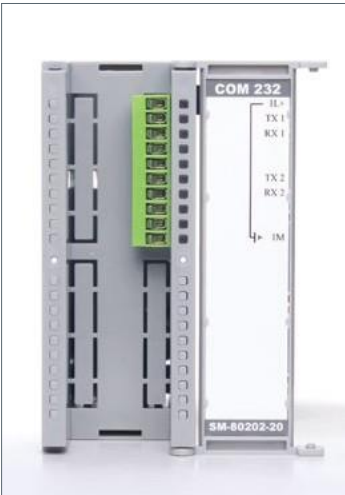






CP 100

Order Code	Description	Price (USD)
SM-80202-00-00	2 Channel RS485 / RS422 communication module. Maximum 1 Mps.	200



CP 101

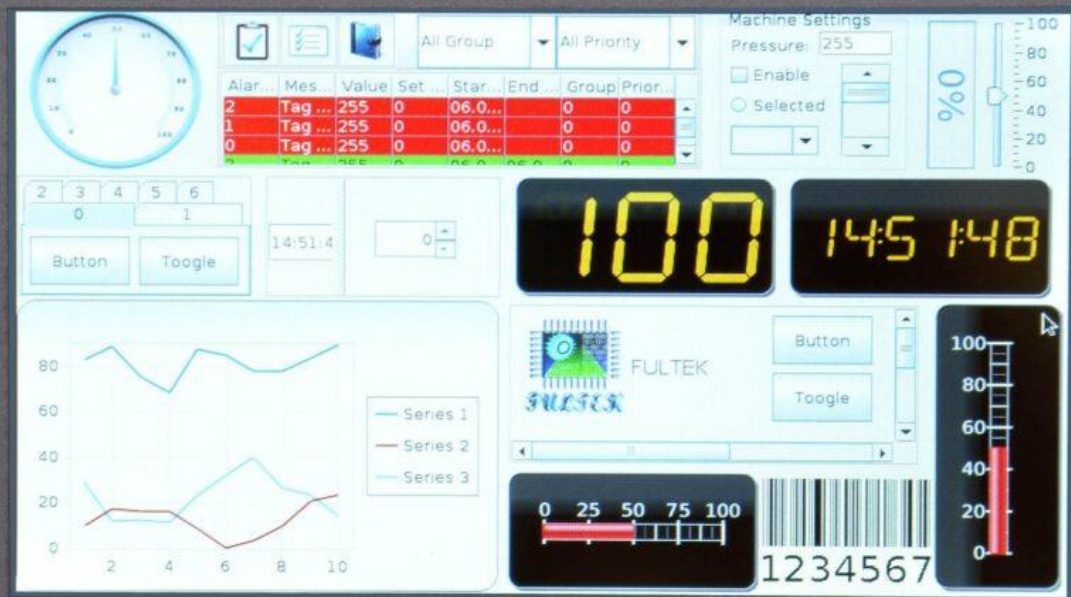
Order Code	Description	Price (USD)
SM-80202-20-00	2 Channel RS232 communication module. Maximum 250 Kps.	200



RACK EXT.

Order Code	Description	Price (USD)
SM-80000-00-00 SM-80001-00-00	Rack extension module. It consists of two modules, Rack input and Rack output. The rack input module must be installed at the end of the top row rack and the Rack output module at the top of the bottom row rack. The transition cable is standard 100 cm.  Sold as a set.	200

# FULTEK



FOCUS HMI



# FOCUS HMI Touch Panel

## General Features

- All models have Ethernet and a Rs485. Some models have two Rs485s.
- You can add multiple serial ports by USB port.
- You can use many devices with USB port, it will automatically recognize it.
- Focus HMI program is used for programming.
- Focus HMI has Linux (Armbian) operating system.
- You can use it as a touch panel pc without the Focus HMI program.
- Focus Hmi has three basic models as Basic, Plus and Professional. All models have Modbus RTU, Modbus TCP / IP, Profinet (Siemens), Hostlink (Omron), Fins Ethernet (Omron) and Fulmatic 7 PLC communication support.
- Focus HMI can share all values in the tag table with third devices with the Modbus TCP / IP Slave feature.
- Bidirectional reading and writing can be made.
- When the number of serial ports is not enough, you can expand it with a USB serial port.
- Focus HMI is one of the very few HMIs with four cores.
- Page transitions and communication are extremely fast with a 1.2 GHz processor.
- Focus HMI is also available in models with integrated Fulmatic 7 PLC.
- There is a maximum of 40 IO on the integrated PLC. With Fulmatic 7 Remote IO modules, it can expand up to 16384 IO capacity.
- The integrated PLC is programmed with the Speed PLC program.
- PLC and HMI are electrically completely independent.

**PLC Standard Features:** 115 KB. program memory, 1×10/100 MBit full duplex Ethernet Modbus RTU and TCP, 512 KB. web server with file space, 8×200 KHz. digital input, 8×655 KHz. 0.1 ampere digital output, 1×0-10 v. and 1×0-20 ma. analog output, 2×0-10 v. or 0-20 ma. 12 bit Analog input, selectable. These features are available in all HMI models with PLC.



# HARDWARE

Features	Basic	Plus	Professional
MCU	ARM Cortex A7, 4 Core 1,2 GHz	ARM Cortex A7, 4 Core 1,2 GHz	ARM Cortex A7, 4 Core 1,3 GHz
Ram 7" 10.1"	512 MB DDR3 1 GB DDR3	512 MB DDR3 1 GB DDR3	1 GB DDR3
Graphics Processor (GPU)	Mali400MP2 @600 MHZ	Mali400MP2 @600 MHZ	Mali400MP2 @600 MHZ
Storage Capacity 7" 10.1"	8 GB SD 16 GB SD	16 GB SD	16 GB SD
Screen type	TFT	TFT	TFT
Resolution 7" 10.1"	800 x 480 1024 x 600	800 x 480 1024 x 600	800 x 480 1024 x 600
Color	16.7 Million	16.7 Million	16.7 Million
Brightness 7" 10.1"	350 cd/m <sup>2</sup> 450 cd/m <sup>2</sup>	600 cd/m <sup>2</sup> 1000 cd/m <sup>2</sup>	600 cd/m <sup>2</sup> 1000 cd/m <sup>2</sup>
Back Light	Led / 30000 h>	Led / 30000 h>	Led / 30000 h>
Touch	Resistive	Resistive or Capacitive	Resistive or Capacitive
Ethernet	10/100 Full	10/100 Full	10/100 Full
Wifi	No, with the usb dongle.	No, with the usb dongle.	Realtek RTL8189ETV, 802.11 b/g/n
RS 485 7" 10.1"	1 2	2	2
USB 2.0	1	1	3
RTC 7" 10.1"	No Yes	Yes	Yes
RTC Backup Super Capacitor	30 Days	30 Days	30 Days
Buzzer 7" 10.1"	No 80 dB	80 dB	80 dB
<u>VNC Server</u>	Yes	Yes	Yes
FTP	Yes	Yes	Yes
Power	20-28 V. DC.	20-28 V. DC.	20-28 V. DC.
Current 7" 10.1"	0,25 Amp 0,40 Amp	0,30 Amp 0,40 Amp	0,30 Amp 0,50 Amp
Storage Temperature Operating Temperature	-20 C to +60 C 0 °C to +50 °C	-20 °C to +60 °C 0 °C to +50 °C	-20 °C to +60 °C 0 °C to +50 °C
Humidity	0..90 %RH	0..90 %RH	0..90 %RH
Size 7" 10.1"	209 x 159 x 40 mm 295 x 208 x 43 mm	209 x 159 x 40 mm 295 x 208 x 43 mm	209 x 159 x 40 mm 295 x 208 x 43 mm
Cut Size 7" 10.1"	192 x 142 mm 279 x 191 mm	192 x 142 mm 279 x 191 mm	192 x 142 mm 279 x 191 mm
Weight 7" 10.1"	550 gr 1130 gr	560 gr 1130 gr	610 gr 1130 gr



# MODELS AND PRICES

Product Code	Explanation	LCD	RS322	RS485	DQ	DI	AQ	AI	Loadcell	Price (USD)
PN-07AR01-00	Basic RTP	7"								225
PN-07BR02-00	Plus RTP	7"								275
PN-07BC02-00	Plus CTP	7"								325
PN-07CR02-00	Pro RTP	7"								325
PN-07CC02-00	Pro CTP	7"								375
PN-10AR02-00	Basic RTP	10,1"								375
PN-10BR02-00	Plus RTP	10.1"								425
PN-10BC02-00	Plus CTP	10.1"								475
PN-10CR02-00	Pro RTP	10.1"								475
PN-10CC02-00	Pro CTP	10.1"								525
PB-07AR01-00	Basic RTP + PLC 24 IO	7"		2	8*	8*	2	6***		425
PB-07BR02-00	Plus RTP + PLC 24 IO	7"		2	8*	8*	2	6***		475
PB-07BC02-00	Plus CTP + PLC 24 IO	7"		2	8*	8*	2	6***		525
PB-10AR02-00	Basic RTP + PLC 24 IO	10,1"		2	8*	8*	2	6***		575
PB-10BR02-00	Plus RTP + PLC 24 IO	10.1"		2	8*	8*	2	6***		625
PB-10BC02-00	Plus CTP + PLC 24 IO	10.1"		2	8*	8*	2	6***		675
PB-07AR01-01	Basic RTP + PLC 24 IO	7"	1	1	8*	8*	2	6***		425
PB-07BR02-01	Plus RTP + PLC 24 IO	7"	1	1	8*	8*	2	6***		475
PB-07BC02-01	Plus CTP + PLC 24 IO	7"	1	1	8*	8*	2	6***		525
PB-10AR02-01	Basic RTP + PLC 24 IO	10,1"	1	1	8*	8*	2	6***		575
PB-10BR02-01	Plus RTP + PLC 24 IO	10,1"	1	1	8*	8*	2	6***		625
PB-10BC02-01	Plus CTP + PLC 24 IO	10,1"	1	1	8*	8*	2	6***		675
PB-07AR01-02	Basic RTP + PLC 24 IO	7"	2		8*	8*	2	6***		425
PB-07BR02-02	Plus RTP + PLC 24 IO	7"	2		8*	8*	2	6***		475
PB-07BC02-02	Plus CTP + PLC 24 IO	7"	2		8*	8*	2	6***		525
PB-10AR02-02	Basic RTP + PLC 24 IO	10,1"	2		8*	8*	2	6***		575
PB-10BR02-02	Plus RTP + PLC 24 IO	10,1"	2		8*	8*	2	6***		625
PB-10BC02-02	Plus CTP + PLC 24 IO	10,1"	2		8*	8*	2	6***		675
PP-07AR01-00	Basic RTP + PLC 40 IO	7"		2	16**	16**	2	6***		525
PP-07BR02-00	Plus RTP + PLC 40 IO	7"		2	16**	16**	2	6***		575
PP-07BC02-00	Plus CTP + PLC 40 IO	7"		2	16**	16**	2	6***		625
PP-10AR02-00	Basic RTP + PLC 40 IO	10,1"		2	16**	16**	2	6***		675
PP-10BR02-00	Plus RTP + PLC 40 IO	10,1"		2	16**	16**	2	6***		725
PP-10BC02-00	Plus CTP + PLC 40 IO	10,1"		2	16**	16**	2	6***		775
PP-07AR01-01	Basic RTP + PLC 40 IO	7"	1	1	16**	16**	2	6***		525
PP-07BR02-01	Plus RTP + PLC 40 IO	7"	1	1	16**	16**	2	6***		575
PP-07BC02-01	Plus CTP + PLC 40 IO	7"	1	1	16**	16**	2	6***		625
PP-10AR02-01	Basic RTP + PLC 40 IO	10,1"	1	1	16**	16**	2	6***		675
PP-10BR02-01	Plus RTP + PLC 40 IO	10,1"	1	1	16**	16**	2	6***		725
PP-10BC02-01	Plus CTP + PLC 40 IO	10,1"	1	1	16**	16**	2	6***		775
PP-07AR01-02	Basic RTP + PLC 40 IO	7"	2		16**	16**	2	6***		525

PP-07BR02-02	Plus RTP + PLC 40 IO	7"	2		16**	16**	2	6***		575
PP-07BC02-02	Plus CTP + PLC 40 IO	7"	2		16**	16**	2	6***		625
PP-10AR02-02	Basic RTP + PLC 40 IO	10,1"	2		16**	16**	2	6***		675
PP-10BR02-02	Plus RTP + PLC 40 IO	10,1"	2		16**	16**	2	6***		725
PP-10BC02-02	Plus CTP + PLC 40 IO	10,1"	2		16**	16**	2	6***		775
PB-07AR01-10	Basic RTP + PLC 23 IO	7"		2	8*	8*	2	4***	1	475
PB-07BR02-10	Plus RTP + PLC 23 IO	7"		2	8*	8*	2	4***	1	525
PB-07BC02-10	Plus CTP + PLC 23 IO	7"		2	8*	8*	2	4***	1	575
PB-10AR02-10	Basic RTP + PLC 23 IO	10,1"		2	8*	8*	2	4***	1	625
PB-10BR02-10	Plus RTP + PLC 23 IO	10,1"		2	8*	8*	2	4***	1	675
PB-10BC02-10	Plus CTP + PLC 23 IO	10,1"		2	8*	8*	2	4***	1	725
PB-07AR01-11	Basic RTP + PLC 23 IO	7"	1	1	8*	8*	2	4***	1	475
PB-07BR02-11	Plus RTP + PLC 23 IO	7"	1	1	8*	8*	2	4***	1	525
PB-07BC02-11	Plus CTP + PLC 23 IO	7"	1	1	8*	8*	2	4***	1	575
PB-10AR02-11	Basic RTP + PLC 23 IO	10,1"	1	1	8*	8*	2	4***	1	625
PB-10BR02-11	Plus RTP + PLC 23 IO	10,1"	1	1	8*	8*	2	4***	1	675
PB-10BC02-11	Plus CTP + PLC 23 IO	10,1"	1	1	8*	8*	2	4***	1	725
PB-07AR01-12	Basic RTP + PLC 23 IO	7"	2		8*	8*	2	4***	1	475
PB-07BR02-12	Plus RTP + PLC 23 IO	7"	2		8*	8*	2	4***	1	525
PB-07BC02-12	Plus CTP + PLC 23 IO	7"	2		8*	8*	2	4***	1	575
PB-10AR02-12	Basic RTP + PLC 23 IO	10,1"	2		8*	8*	2	4***	1	625
PB-10BR02-12	Plus RTP + PLC 23 IO	10,1"	2		8*	8*	2	4***	1	675
PB-10BC02-12	Plus CTP + PLC 23 IO	10,1"	2		8*	8*	2	4***	1	725
PP-07AR01-10	Basic RTP + PLC 39 IO	7"		2	16**	16**	2	4***	1	575
PP-07BR02-10	Plus RTP + PLC 39 IO	7"		2	16**	16**	2	4***	1	625
PP-07BC02-10	Plus CTP + PLC 39 IO	7"		2	16**	16**	2	4***	1	675
PP-10AR02-10	Basic RTP + PLC 39 IO	10,1"		2	16**	16**	2	4***	1	725
PP-10BR02-10	Plus RTP + PLC 39 IO	10,1"		2	16**	16**	2	4***	1	775
PP-10BC02-10	Plus CTP + PLC 39 IO	10,1"		2	16**	16**	2	4***	1	825
PP-07AR01-11	Basic RTP + PLC 39 IO	7"	1	1	16**	16**	2	4***	1	575
PP-07BR02-11	Plus RTP + PLC 39 IO	7"	1	1	16**	16**	2	4***	1	625
PP-07BC02-11	Plus CTP + PLC 39 IO	7"	1	1	16**	16**	2	4***	1	675
PP-10AR02-11	Basic RTP + PLC 39 IO	10,1"	1	1	16**	16**	2	4***	1	725
PP-10BR02-11	Plus RTP + PLC 39 IO	10,1"	1	1	16**	16**	2	4***	1	775
PP-10BC02-11	Plus CTP + PLC 39 IO	10,1"	1	1	16**	16**	2	4***	1	825
PP-07AR01-12	Basic RTP + PLC 39 IO	7"	2		16**	16**	2	4***	1	575
PP-07BR02-12	Plus RTP + PLC 39 IO	7"	2		16**	16**	2	4***	1	625
PP-07BC02-12	Plus CTP + PLC 39 IO	7"	2		16**	16**	2	4***	1	675
PP-10AR02-12	Basic RTP + PLC 39 IO	10,1"	2		16**	16**	2	4***	1	725
PP-10BR02-12	Plus RTP + PLC 39 IO	10,1"	2		16**	16**	2	4***	1	775
PP-10BC02-12	Plus CTP + PLC 39 IO	10,1"	2		16**	16**	2	4***	1	825



PB-07AR01-20	Basic RTP + PLC 22 IO	7"		2	8*	8*	2	2***	2	525
PB-07BR02-20	Plus RTP + PLC 22 IO	7"		2	8*	8*	2	2***	2	575
PB-07BC02-20	Plus CTP + PLC 22 IO	7"		2	8*	8*	2	2***	2	625
PB-10AR02-20	Basic RTP + PLC 22 IO	10,1"		2	8*	8*	2	2***	2	675
PB-10BR02-20	Plus RTP + PLC 22 IO	10,1"		2	8*	8*	2	2***	2	725
PB-10BC02-20	Plus CTP + PLC 22 IO	10,1"		2	8*	8*	2	2***	2	775
PB-07AR01-21	Basic RTP + PLC 22 IO	7"	1	1	8*	8*	2	2***	2	525
PB-07BR02-21	Plus RTP + PLC 22 IO	7"	1	1	8*	8*	2	2***	2	575
PB-07BC02-21	Plus CTP + PLC 22 IO	7"	1	1	8*	8*	2	2***	2	625
PB-10AR02-21	Basic RTP + PLC 22 IO	10,1"	1	1	8*	8*	2	2***	2	675
PB-10BR02-21	Plus RTP + PLC 22 IO	10,1"	1	1	8*	8*	2	2***	2	725
PB-10BC02-21	Plus CTP + PLC 22 IO	10,1"	1	1	8*	8*	2	2***	2	775
PB-07AR01-22	Basic RTP + PLC 22 IO	7"	2		8*	8*	2	2***	2	525
PB-07BR02-22	Plus RTP + PLC 22 IO	7"	2		8*	8*	2	2***	2	575
PB-07BC02-22	Plus CTP + PLC 22 IO	7"	2		8*	8*	2	2***	2	625
PB-10AR02-22	Basic RTP + PLC 22 IO	10,1"	2		8*	8*	2	2***	2	675
PB-10BR02-22	Plus RTP + PLC 22 IO	10,1"	2		8*	8*	2	2***	2	725
PB-10BC02-22	Plus CTP + PLC 22 IO	10,1"	2		8*	8*	2	2***	2	775
PP-07AR01-20	Basic RTP + PLC 38 IO	7"		2	16**	16**	2	2***	2	625
PP-07BR02-20	Plus RTP + PLC 38 IO	7"		2	16**	16**	2	2***	2	675
PP-07BC02-20	Plus CTP + PLC 38 IO	7"		2	16**	16**	2	2***	2	725
PP-10AR02-20	Basic RTP + PLC 38 IO	10,1"		2	16**	16**	2	2***	2	775
PP-10BR02-20	Plus RTP + PLC 38 IO	10,1"		2	16**	16**	2	2***	2	825
PP-10BC02-20	Plus CTP + PLC 38 IO	10,1"		2	16**	16**	2	2***	2	875
PP-07AR01-21	Basic RTP + PLC 38 IO	7"	1	1	16**	16**	2	2***	2	625
PP-07BR02-21	Plus RTP + PLC 38 IO	7"	1	1	16**	16**	2	2***	2	675
PP-07BC02-21	Plus CTP + PLC 38 IO	7"	1	1	16**	16**	2	2***	2	725
PP-10AR02-21	Basic RTP + PLC 38 IO	10,1"	1	1	16**	16**	2	2***	2	775
PP-10BR02-21	Plus RTP + PLC 38 IO	10,1"	1	1	16**	16**	2	2***	2	825
PP-10BC02-21	Plus CTP + PLC 38 IO	10,1"	1	1	16**	16**	2	2***	2	875
PP-07AR01-22	Basic RTP + PLC 38 IO	7"	2		16**	16**	2	2***	2	625
PP-07BR02-22	Plus RTP+ PLC 38 IO	7"	2		16**	16**	2	2***	2	675
PP-07BC02-22	Plus CTP + PLC 38 IO	7"	2		16**	16**	2	2***	2	725
PP-10AR02-22	Basic RTP + PLC 38 IO	10,1"	2		16**	16**	2	2***	2	775
PP-10BR02-22	Plus RTP+ PLC 38 IO	10,1"	2		16**	16**	2	2***	2	825
PP-10BC02-22	Plus CTP + PLC 38 IO	10,1"	2		16**	16**	2	2***	2	875

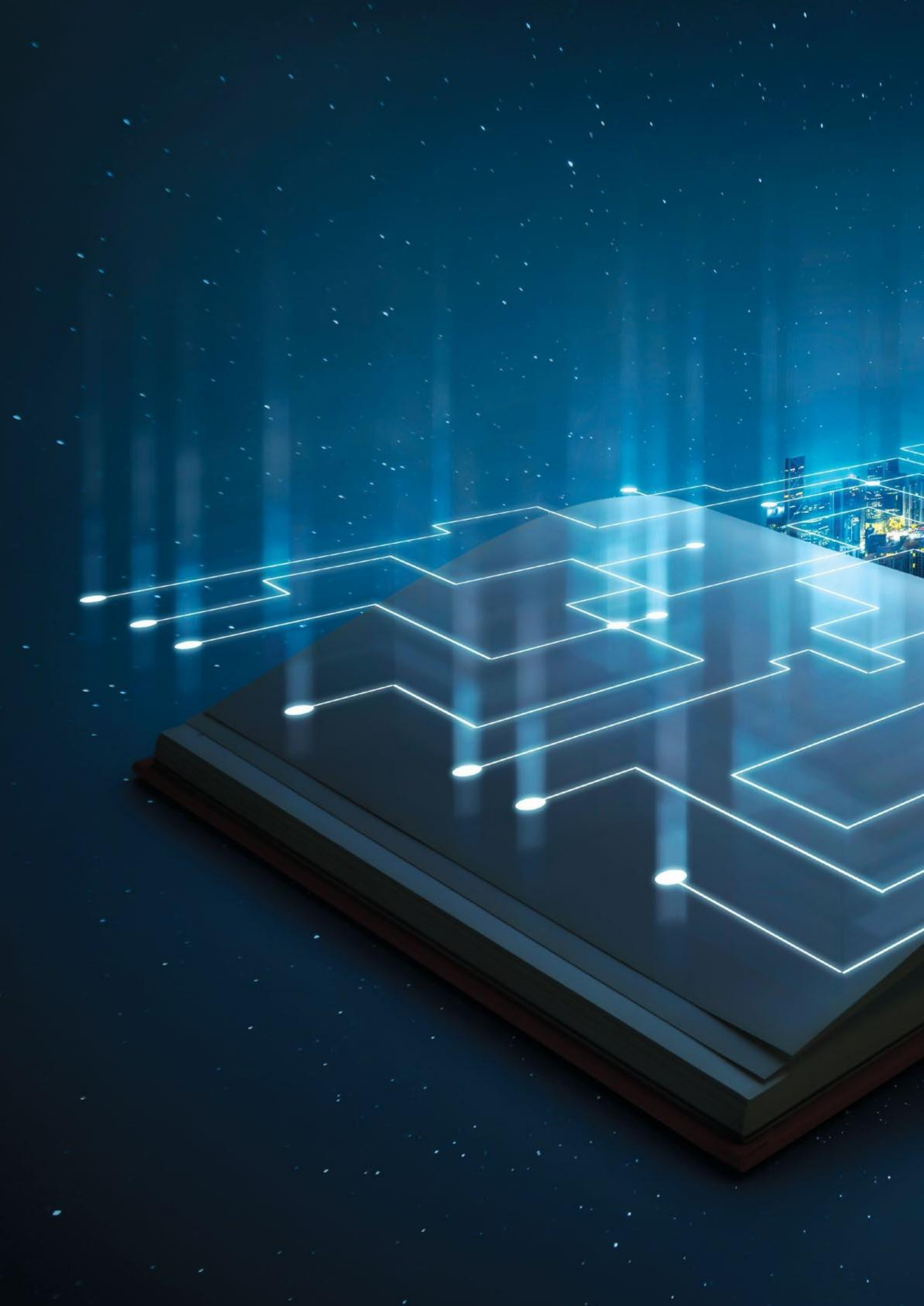
\* 200 KHz digital input and 655 KHz 0.1 Amp. digital output.

\*\* 8x 200 KHz and 8x 20 KHz digital input. 8x 655 KHz 0.1 Amp. and 8x 20 KHz 0.5 Amp. digital output.

\*\*\* You can see the analog input properties in the table below.

Channel No	Resolution	Samples Rate	0-10 Volt	0-20 Ma.	Pt100	Pt1000	Resistance	Milivolt	Thermocouple
0	12 Bit	65 KSPS	Yes	Yes					
1	12 Bit	65 KSPS	Yes	Yes					
2	16 Bit	1 KSPS	Yes	Yes	-200/850 C°	-200/350 C°	0-2320 Ohm	0-800 Mv.	B, E, J, K, N, R, S, T
3	16 Bit	1 KSPS	Yes	Yes				0-800 Mv.	B, E, J, K, N, R, S, T
4	16 Bit	1 KSPS	Yes	Yes	-200/850 C°	-200/350 C°	0-2320 Ohm	0-800 Mv.	B, E, J, K, N, R, S, T
5	16 Bit	1 KSPS	Yes	Yes				0-800 Mv.	B, E, J, K, N, R, S, T

\*\*\*\*HMI PLC loadcell models have one or two loadcell reading channels. 16 pieces of 350 ohm load cells can be connected in parallel. When two channels are used, the total number of load cells should not exceed 16. Loadcell read resolution is 20 Bit. The number of samples is 80 SPS.







WinTr  
**SCADA**

## General Features

- You don't need to buy two different products as Development and Runtime. Both are sold in a single package.
- You can use more than 4000 symbols with the Symbol factory object.
- You can increase the visuality of your project in tank level display with the Cutaway object.
- Dundas Chart (Professional version) has been integrated into our program. You can access millions of graphic options with this object.
- Dundas Gauge contains many analog and digital gauges. You can visually enrich your scada project with this object.
- You can easily do all kinds of operations with Net Objects. .Net objects: Button, Checkbox, Radiobutton, Combobox, Numericupdown, Horizontal Scroollbar, Vertical Scroollbar, Prograssbar, Datagridview, Datetimepicker, Tabcontrol, Groupbox, Picturebox, Textbox, Toolstrip, Invisible Button.
- The Alarm View object is designed to monitor alarms and view past alarms using filters.
- With the Event View object, any operator movements are recorded and can be searched using filters.
- You can easily create recipes with the Recipe object. Recipes grouped with categories allow many different productions to be made at the same time.
- ActiveX and .Net component support enables programs prepared on different platforms in challenging projects to be added to scada visuals. Thus, you can customize the visuals of your scada project.
- Server & Client operating modes allow you to control huge systems with unlimited client numbers and 1000 different server capacity. Communication between server and client can be selected as restricted or full. The same station can be both a server and a client. It meets all your needs with its flexible structure.

- You can design fully backed-up systems with the Redundant feature. Even your PLCs can be redundant. Redundant scadas perform plc access over each other. Meanwhile, only one of the scada stations has a direct connection with the plc. If this station disconnects for any reason, the redundant partner automatically takes over the task.
- The report module allows you to create a report from the data saved in the database with a few operations. You can add all kinds of filters and create reports as pdf or excel files. The report you have created can be sent automatically by e-mail. This process can be done automatically at certain times.
- Vb Script and C # Scripts support all commands of Net. Short jobs can be done synchronously and long jobs can be done asynchronously with synchronous and asynchronous operation modes. Thus, long jobs are prevented from disrupting the scada tasks.
- SQL Server is limited to 4 GB. There is no limit to the number of tables. Each table can contain 950 Tag historical tags. You can use all versions of SQL server. For higher capacity databases, you need to purchase a SQL Server license.
- With the Opc Client module, you can communicate with other communication protocol devices that are not included in the scada. For this, you need to get the opc server software of the relevant protocol.
- Most of the PLC communication protocols are available in the scada program. S7 Mpi, S7 Ppi, Profinet, Modbus Rtu / Tcp Master, Modbus Slave, Hostlink, Fins Ethernet, Mewtocol.
- You can always get the highest level of technical support. You will receive technical support directly from the producer of the program. Questions you send to [www.wintrscada.com](http://www.wintrscada.com) are answered within a few hours.
- Our first goal is to make WinTr scada the best known scada program. Therefore, we determined the price as much cheaper than other scada programs. When evaluating our prices, evaluate the features. You will see that it is much cheaper than other scada programs with the same features.



# SALE METHOD

- WinTr is sold according to External tag number. External Tags are: OPC, S7MPI, S7PPI, Profinet(S7 1200), Modbus RTU / TcpIp and SQL Server 2005 Tags. There is no limitation at Internal Tags. And no limitation at the Tags being historical.

What is the main difference between WinTr and other SCADAs? Why should we prefer WinTr?

- WinTr Scada is sold with 3 years free upgrade warranty.
- WinTr Scada development is free, runtime and development are sold together.
- With WinTr Scada demo, you need to purchase a license when you complete your project and deliver it to your customer. (With the demo license, only the symbol factory first symbol is used.)
- We are offering the dundas chart and gauge, the award-winning chart object of 2009, to your service. It is the only scada program that uses graphic objects in this variety and visuality.
- Vb and C # scripts work differently on their own. While Scada programs allow the use of certain functions in script functions, WinTr removes all the obstacles and allows you to do many operations with scripts as if you were writing programs with dot net.
- It is also possible to access scada information other than scada tags with scripts and to operate on these variables. When such needs arise, we provide information to our customers free of charge.
- Scripts are compiled for the first time and saved as .net dll. And after that it is run directly. Thus, it is provided to work faster. Even very large transactions are run very fast within the script.

- In many scada programs, the number of functions that can be operated with a button or another object is limited. However, you can run 256 functions with WinTr. You can even run these functions with the occurrence or deletion of an alarm.
- Thousands WinTr scada may establish full or restricted access to each other via server and client functionality.
- With S7 MPI, Ppi, Profinet, Host-Link and modbus rtu, automation devices can be connected without opc server.
- E-mail and SMS sent when specified conditions occur.
- You can create many different recipe algorithms with categorized recipe.
- Real-time data tracking and control is realized with the real time operation gained with Version 2.0.0.
- In high tag count, the first transition to Runtime is slow, but then all objects are interrupted and become functions that only work when the value changes. Thus, you can make projects with very high tag counts even on slow computers. By high tag number, we mean 20000 tags and above.
- Many image files can be used on Scada pages, animated picture applications can be made using gif files.
- We offer all these superior features to your use at low prices.

# ALL FEATURES

1. Scada input / output (Tag) number can be used up to 65534 tags.
2. It can communicate with Modbus Rtu and many other protocols without the need for any other software.
3. Communication modules are independent dlls. It has extremely high performance.
4. It has Opc client interface. It can communicate with any device via Opc servers.
5. Scada trends can be used instantly and historically.
6. In historical trends, the oldest date in the database can be displayed without any time limitation.
7. Trends can be easily transferred to pdf, excel or printer at runtime. The time indicated by trends can be changed at runtime.
8. Trends can draw graphs from data in different databases. These databases can be on the local computer or on different servers. All trend lines must be in the same database.
9. Moving over the trend with the mouse, it shows the value of the trend line. Also, values can be displayed on Trend lines without mouse movement.
10. Scada software can create trends in pie form.
11. There are zoom and scroll features on the trend object.
12. The number of trends that can be created on the same scada page is unlimited.
13. Analog indicator (Gauge) can be created in Scada software. Many different values can be shown in gauges. Bar graphs can be added to gauges. Short labels can be written in gauges.
14. Scada software saves the values of the determined tags in the database. These records can be made in certain time periods, when the Tag value changes or by triggering another Tag.
15. Scada can record in the database on the computer where the software is installed, as well as in the database in a different server.
16. Visual basic and C # scripts can be written in Scada software. A dynamic dll is created from the codes written in this way and these dlls can be run in various situations at runtime. Scripts can work synchronously or asynchronously with scada.
17. Scada software can work as server and client. The number of clients that can connect to server scada is unlimited. The client can connect to a maximum of 1000 different servers. IP addresses that can be connected to the server can be selected.
18. The Alarm View object displays the alarm description with arrival and departure date and time information of active alarms.



19. Each new incoming alarm is deleted from the active alarm list with a 'seen' sign by the operator. The operator's alarm 'seen' sign is recorded as time.
20. Printer can be printed when alarms come and go.
21. Maximum 4000 of deleted alarms appear in the passive alarm list. All old alarms and active alarms are saved in the database and reports can be created when needed.
22. Active and passive alarms at runtime can be printed out in Excel format.
23. When an alarm occurs or when the alarm is gone, e-mail and sms sending functions are available. Likewise, it is also possible to run scripts and change tag values.
24. Sms sending can be made via GSM modem or server. An audible alarm can be created with the sounds recorded in the alarms.
25. Scada software has recipe function. Recipes can be created in different categories. The number of categories or the number of recipes in each category is unlimited.
26. Recipes can be printed in excel format at runtime.
27. Recipe and Alarm objects can be used in different scada pages with different view settings.
28. A maximum of 10 different user levels can be specified in the Scada software. Depending on the level of authority, they can perform certain actions in the scada project.
29. Scada software can use the bits of the Tag in Integer types as a different tag.
30. Scada software can scale tags. A Tag can have many second versions scaled with different values.
31. There is no limit to the number of tags that can be displayed on a page in the Scada software.
32. Scada software can create Excel files on computers where Excel program is not installed. These files can only be opened on computers where excel is installed.
33. Scada software can read and print barcode.
34. Scada software has a printer function. Printers can be used locally or via network.
35. Scada software can create reports from database records. Reports are in Excel and pdf format. A previously prepared file format can be used in Excel reports (Excel must be installed for this feature).
36. After the report is created, it can send the automatically created report as e-mail without the need for a second action.
37. Scada software can run unlimited scada pages at the same time. Scada pages can be opened in the same window or in a different window.
38. Scada is capable of using unlimited monitors. It can display different pages on all monitors at the same time.
39. The screen coordinates in which the pages will be shown can be selected.
40. Scada pages can be viewed with internet browser programs.
41. Scada development can be continued without stopping the runtime.
42. In Scada, the operator creates an event list and saves this list in the database and can create reports when necessary.
43. Scada saves client which changed tag values to database and reports when necessary.
44. Scada can create and use many tables in the defined database.
45. Scada can use third party software as activex and .net component.

# MODEL AND PRICE

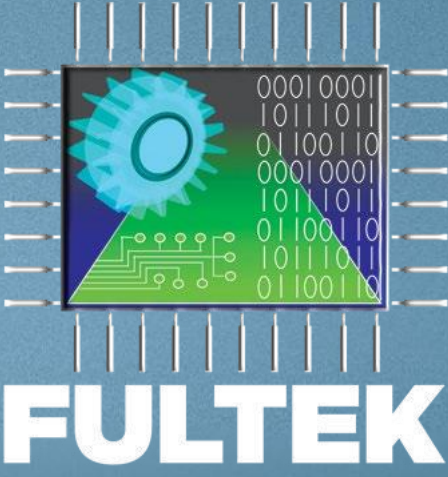
Function	Starter	Basic	Pro.	Ultimate
Development / Runtime	Yes	Yes	Yes	Yes
Realtime & Historical Trend	Yes	Yes	Yes	Yes
Gauge	Yes	Yes	Yes	Yes
.Net Component Object	Yes	Yes	Yes	Yes
Cutaway	Yes	Yes	Yes	Yes
Symbol Factory	Yes	Yes	Yes	Yes
Alarm Management	Yes	Yes	Yes	Yes
Vb & C# Script	Yes	Yes	Yes	Yes
Database Support (4 gb.)	Yes	Yes	Yes	Yes
Opc Client	Yes	Yes	Yes	Yes
Plc Com. Driver		Yes	Yes	Yes
Recipe			Yes	Yes
Reporting			Yes	Yes
Sms			Yes	Yes
E-mail			Yes	Yes
Printing (Barcode)			Yes	Yes
Barcode Reader			Yes	Yes
Excel Support			Yes	Yes
Pdf Support			Yes	Yes
Schedule (Zamanlanmış Görevler)			Yes	Yes
WinTr Server & Redundant				Yes
Web Server (Limited*)				Yes
EventView				Yes
ActiveX, Dll, .Net component Support				Yes

\* Objects controlled by Web Server: Button, Checkbox, Radio Button, Picturebox, SymbolFactory, Cutaway, Drawing, invisible Button, Textbox, Numericupdown, Horizontal Scrollbar, Vertical Scroolbar. *Other object read only.*

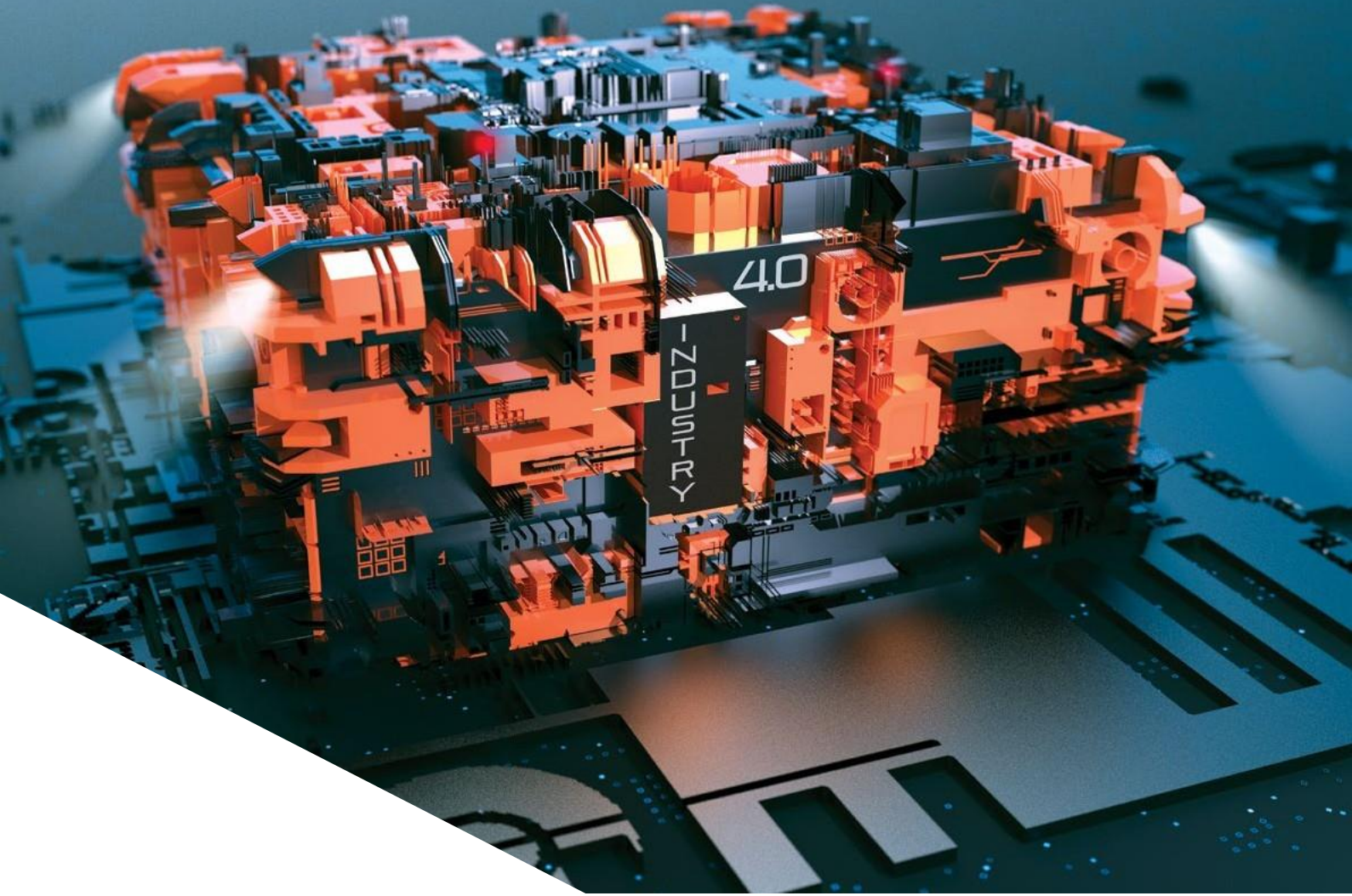
Tag	Starter	Basic	Pro.	Ultimate
64	128 Usd.	228 Usd.	478 Usd.	728 Usd.
128	256 Usd.	356 Usd.	606 Usd.	856 Usd.
256	512 Usd.	612 Usd.	862 Usd.	1112 Usd.
512	768 Usd.	868 Usd.	1118 Usd.	1368 Usd.
1024	1024 Usd.	1124 Usd.	1374 Usd.	1624 Usd.
2048	2048 Usd.	2148 Usd.	2398 Usd.	2648 Usd.
8192	4096 Usd.	4196 Usd.	4446 Usd.	4696 Usd.
65535				8192 Usd.
Sınırsız				16384 Usd.

## OTHER FEES

- Dongle fee 25 USD. One must be purchased for each scada license. You must add this fee to the above prices. For example, 1024 Tag Ultimate 1624 Usd + 25 Usd = 1649 Usd.
- Scada type or tag number increase is the difference between the current license fee and the new license fee. With the new version, license increase transactions are made with the application prepared on your behalf. An additional fee of 50 USD will be charged for the preparation of this application.
- (Redundant) For full backup operation of two different computers, you need to purchase two scada programs of the same type and size. Server and Client operation is different from Redundant operating system. Client reads the selected Tag values from the server. 64 tag client can read all tag values of the server without any limit. Tags read on the server on the client side are evaluated as internal tags. On the other hand, Redundant two computers work exactly as one. When one of the computers is not working, the whole operation is carried out by the other scada without any interruption.
- From the moment you purchase WinTr scada license, you can use new versions free of charge for 3 years. When you want to switch to the new version at the end of this period, it is possible to extend the period for three more years by paying 50% of the license fee. There is no obstacle for you to use it indefinitely without switching to new versions. What is mentioned in this section is just a transition to the newer versions.



# FULTEK



**FULTEK**  
**KONTROL SİSTEMLERİ**  
**SAN.TİC.LTD.ŞTİ.**

**E-mail:** [info@fultek.com.tr](mailto:info@fultek.com.tr)

**Phone:** +90 212 871 01 28 / +90 212 871 01 29

**Address:** Buyuksehir mah. Cumhuriyet cad. No:1 Ekinoks  
Rez. E2 Blok K:2 D:8 34520 Beylikduzu / **Istanbul** /  
**Turkey**

[fultek.com.tr](http://fultek.com.tr)