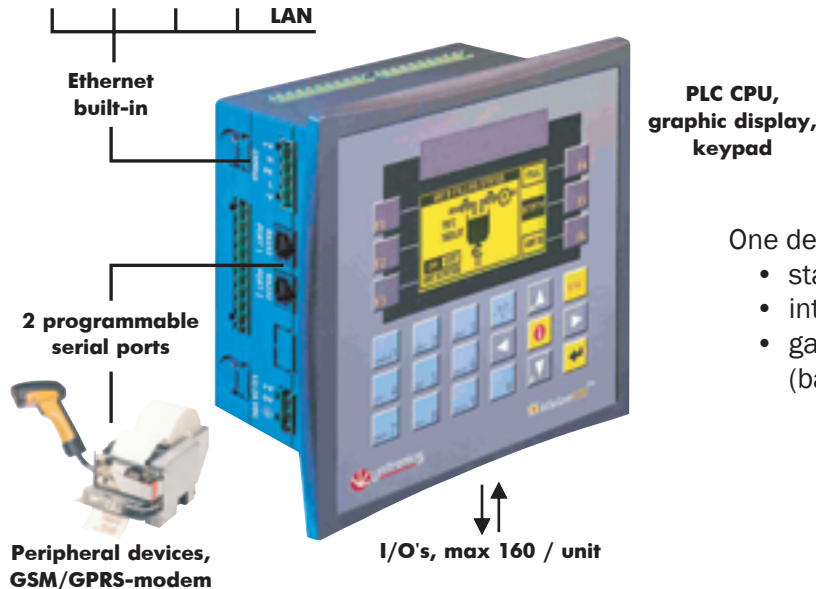


Ethernet I/O, PLC, HMI and serial device gateway in one economical device:

GPRS-Controller V200 Series PLCs

Phone modem, GSM and GPRS communication supported.



One device - three uses:

- stand alone PLC controller, with HMI
- intelligent Ethernet I/O without/with CPU
- gateway for serial devices ↔ ethernet (bar code readers, label printers, scales etc.)

Vision 230, 260 and 280 Series GPRS-Controller PLCs are economical powerful PLCs with max 160 I/O per one substation, integrated graphic display, keypad and flexible network and communication interfaces. Vision PLC operates as advanced controller with local HMI for machines, production lines and other objects.

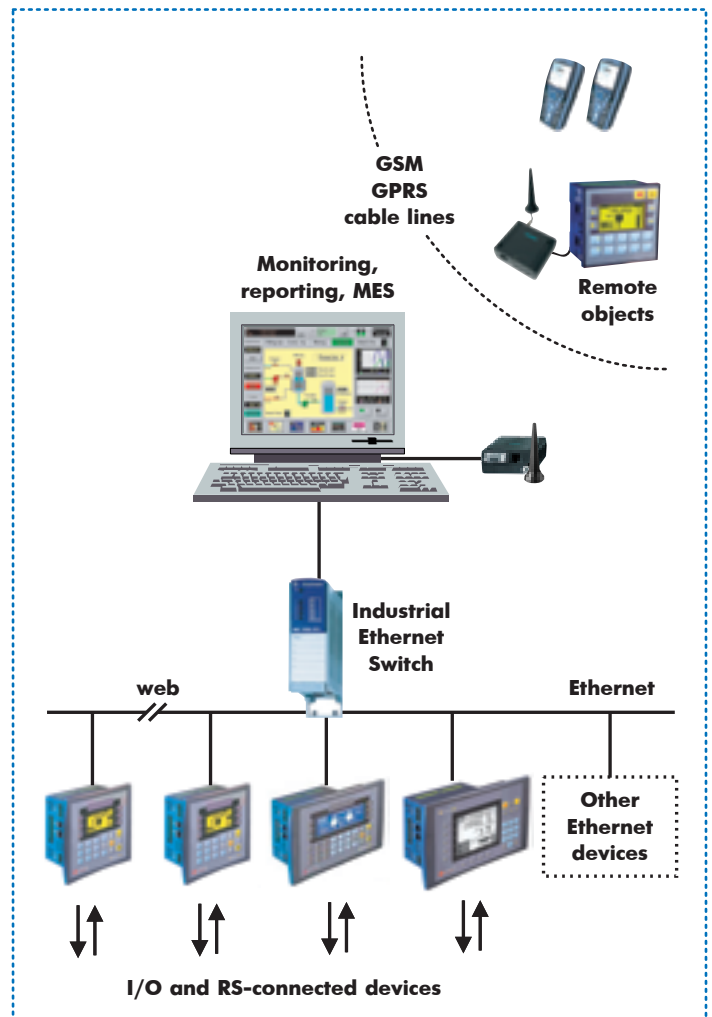
Vision PLC operates also as intelligent Ethernet I/O system to upper level like SCADA and databases. Vision PLC may be used as gateway to serial communication devices (bar code readers, scales etc) with its two freely programmable serial ports. Vision can be used as PID controller with its analog and thermocouple modules.

Vision PLCs support remote operations with ready instruction set:

- interface over internet and fixed phone lines
- interface over GSM (SMS or GSM-data) and GPRS for wireless automation.

Vision's Ethernet enables Modbus commands to run over TCP/IP. Via an Ethernet port and easy-to-use Ladder function blocks, Vision PLCs can:

- exchange data, PLC to PLC
- configure all the PLC application programs from a PC over LAN
- access external slave devices that support Modbus over TCP/IP
- implement PC access via SCADA and databases
- acquire data from remote Vision PLC units networked into intranets, internets, WLAN or GSM/GPRS
- boots your connectivity by using dedicated IP addresses, and access/program remote Vision PLCs via internet.



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	V230	V260	V280
Graphic Display Screen			
Type	STN LCD	Negative blue STN LCD	Black & White FSTN LCD
Touchscreen	None	None	Resistive, Analog
Illumination Backlight	LED, yellow-green	CCFL (Fluorescent Lamp)	CCFL (Fluorescent Lamp)
Display Resolution / HMI Displays	128 x 64 pixels / up to 255	240 x 64 pixels / up to 255	230 x 240 pixels (QVGA), 4.7" active area / up to 255
Keyboard			
Number of Keys	24	33	27
	user-labeled, includes soft keys & numeric keypad		
Program			
Ladder Code Memory	256 K	256 K	384 K
Execution Time for Bit Operation	0.5 sec		
Memory Bits (coils) / Integers (registers) / Long Integers (32 bit)	2048 / 1600 / 256		
Memory Floats / Double Word (32 bit unsigned) / Timers (32 bit) / Data Tables	24 / 64 / 192 / Up to 120 K (RAM), 64 K (Flash)		
Communication			
RS232 / Ethernet/RS485	2 ports / 1 port (optional - see additional communication modules)		
CANbus / MODBUS	1 port / Supports MODBUS protocol, Master/Slave		
GSM / SMS / GPRS	Up to 8 phone numbers		
General			
Power Supply	12 VDC or 24 VDC		
Battery Back-up	7 year typical battery back-up for all memory sections and real time clock (RTC)		
Environment	IP65/NEMA4X (front panel, when mounted)		
Expansion Option	Up to 128 additional I/Os, via plug-in expansion modules		
Dimensions	184 x 155 x 61,4 mm (7.24" x 6.1" x 2.8")	260 x 155 x 72 mm 10.24" x 6.1" x 2.8"	260 x 155 x 72 mm (10.24" x 6.1" x 2.8")
Article Number	V230-13-B20B	V260-16-B20B	V230-13-B20B

Snap-in I/O Modules (into Vision PLC)

Article Number	V200-18-E1B	V200-18-E2B	V200-18-E3B
Digital Inputs (Isolated)	16 pnp/npn Inputs (24 VDC)	16 pnp/npn Inputs (24 VDC)	18 pnp/npn Inputs (24 VDC)
High-speed Counter / Shaft Encoder / Frequency Measurer	Two 10 kHz pnp/npn Inputs	Two 10 kHz pnp/npn Inputs	Two 10 kHz pnp/npn Inputs
Analog Inputs	Three 10 bit Inputs, 0-10V, 0-20mA, 4-20mA	Two 10 bit Inputs, 0-10V, 0-20mA, 4-20mA	Four isolated 12 bit Inputs, 0-10V, 0-20mA, 4-20mA
Temperature Measurement	None	None	May also be set to Thermocouple or PT100 (14-bit)
Digital Outputs (Isolated)	4 pnp/npn Outputs (24 VDC) 10 Relay Outputs	4 pnp/npn Outputs (24 VDC) 10 Relay Outputs	2 pnp/npn Outputs (24 VDC) 15 Relay Outputs
High-speed Output / PWM	2 Transistor Outputs are high-speed outputs, 50 kHz for npn / 2 kHz for pnp		
Analog Outputs	None	Two 12 bit Outputs, 0-10V, 0-20mA, 4-20mA	Two 12 bit Outputs, 0-10V, 0-20mA, 4-20mA

Expansion I/O modules (external)

EX-A1	Expansion adapter, 12/24 VDC
24 VDC Digital modules	
IO-DI8-TO8	8 Dig In / 8 Trans Out, 24 VDC
IO-DI8-RO4	8 Dig In / 4 Relay Out, 24 VDC
IO-DI16	16 Dig In, 24 VDC
IO-RO8	8 Relay Out, 24 VDC
IO-RO16	16 Relay Out, 24 VDC
EX90-DI8-RO8	8 Dig In / 8 Relay Out, 24 VDC
12 VDC Digital modules	
IO-DI8-TO8-L	8 Dig In / 8 Trans Out, 12 VDC
IO-DI8-RO4-L	8 Dig In / 4 Relay Out, 12 VDC
IO-DI16-L	16 Dig In, 12 VDC
IO-RO8L	8 Relay Out, 12 VDC
IO-RO16-L	16 Relay Out, 12 VDC
12/24 VDC Digital module	
IO-TO16	16 Trans Out, 12/24 VDC
Analog & Temperature measurement modules	
IO-AI4-AO2	4 Ana In / 2 Ana Out
IO-AO6X	6 Isol Ana Out
IO-PT4	4 PT100 In
IO-ATC8	8 Thermocouple/Ana In

Additional communication modules

Article Number	Communication port
V200-19-4R	1 RS485 port
V200-19-ET1	1 Ethernet port

Ethernet is built-in in models "E".

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