

I/O Expansion Modules

Expand your system with local or remote I/O expansion modules¹. Vision series support both local & remote I/O modules. M90/M91² support local modules only.

Digital Modules

IO-D18-T08	IO-D18-R04	IO-D18-R08	EX90-D18-R08 ³	IO-D116
24VDC 8 Digital Inputs, pnp/npn, including one High-speed Counter 8 pnp Transistor Outputs	24VDC 8 Digital Inputs, pnp/npn, including one High-speed Counter 4 Relay Outputs	24VDC 8 Digital Inputs, pnp/npn, including one High-speed Counter 8 Relay Outputs	24VDC 8 Digital Inputs, pnp/npn, including one High-speed Counter	24VDC 16 Digital Inputs, pnp/npn, including one High-speed Counter
IO-T016	IO-R08	IO-R016	IO-D18ACH	
24VDC 16 pnp Transistor Outputs	24VDC (power supply) 8 Relay Outputs	24VDC (power supply) 16 Relay Outputs	110/220 VAC 8 AC Inputs	



Analog, Temperature and Weight/Strain Measurements

IO-A06X	IO-LC1 ⁴	IO-LC3 ⁴	IO-ATC8	IO-A18 ⁶
24VDC (power supply) 6 Isolated Analog Outputs 12-bit	4 PT100/N100/N120 Inputs Range PT100: -58°F to 860°F (-50°C to 460°C) -58°F to 449°F (-50°C to 232°C) Range N100: -58°F to 449°F (-50°C to 232°C) -58°F to 341°F (-50°C to 172°C) 12-bit	4 PT100/NI1000 Inputs Range PT100: -58°F to 860°F (-50°C to 460°C) Range NI1000: -58°F to 449°F (-50°C to 232°C) -58°F to 341°F (-50°C to 172°C) 12-bit	8 Thermocouples/ Analog Inputs T/C, J, K, T, E, N, R, S, Q, P Resolution, 0-10V, 0-20mA, 4-20mA, 12/14-bit	8 Analog Inputs 0 to 10V / 0 to 20mA 14-bit 0-10V, 0-20mA, 4-20mA, 12/14-bit
24VDC (power supply) 6 Isolated Analog Outputs 12-bit	12/24VDC (Power Supply) 1-3 Loadcell / Strain gauge Inputs Input voltage ranges: ±20mV, ±80mV Excitation: AC/DC 1 Digital pnp Input 2 pnp Outputs Not supported by all IOPLCTM			

New!

I/O Expansion Module Adapters

EX-A2X ¹	EX-RC1 ⁵
Local I/O module adapter. Galvanic isolation. Up to 8 modules may be connected to a single PLC. Supports both 12/24 VDC.	Remote I/O module adapter, via CANbus. Multiple adapters may be connected to a single PLC, with up to 8 modules to each adapter ¹ . Supports both 12/24 VDC.

New!

¹ Number of I/O may vary according to module.
² Except for M90, M91.
³ This EX90 is housed in an open casing. Only one EX90 can be connected per PLC as a single expansion module.
⁴ I/O-PLC module not required.
⁵ EX-RC1 is supported by Vision series. Not supported by M91 series.
⁶ Not yet UL certified.

* Address and I2C modules are listed on Ultraline web site.

XL Digital/Analog Modules

IO-D16A3-R016	IO-D16A3-T016	EX-D16A3-R08	EX-D16A3-T016
24VDC 16 Digital Inputs pnp/npn, including two High-speed Counters, 3 Analog Inputs, 10-bit, 0-20mA, 4-20mA, 16 Relay Outputs	24VDC 16 Digital Inputs pnp/npn, including one High-speed Counter, 3 Analog Inputs, 10-bit, 0-20mA, 4-20mA, 15 pnp + 1 pnp/npn Transistor Outputs, including 1 HSO	24VDC built-in Expansion Module Adapter, 16 Digital Inputs, pnp/npn, including two High-speed Counters, 3 Analog Inputs, 10-bit, 0-20mA, 4-20mA, 8 Relay Outputs	24VDC built-in Expansion Module Adapter, 16 Digital Inputs, pnp/npn, including one High-speed Counter, 3 Analog Inputs, 10-bit, 0-20mA, 4-20mA, 15 pnp + 1 pnp/npn Transistor Outputs including 1 HSO

Snap-in I/O Modules



Plug a Snap-in module directly into the back of a Vision PLC. Compatible with all V200, V500, V1040 and V1210 Vision series modules.

New!

Article No.	V200-18-E1B	V200-18-E2B	V200-18-E3XB	V200-18-E4XB	V200-18-E5B	V200-18-E6B ¹	V200-18-E6B ²
Digital Inputs (isolated)	16 pnp/npn (including 2 Shift-encoder inputs)	16 pnp/npn (including 2 Shift-encoder inputs)	18 pnp/npn (including 2 Shift-encoder inputs)	18 pnp/npn (including 2 Shift-encoder inputs)	18 pnp/npn (including 2 Shift-encoder inputs)	18 pnp/npn (including 2 Shift-encoder inputs)	30 pnp/npn (including 2 Shift-encoder inputs)
Analog Inputs	3 10-bit 0-10V, 0-20mA 4-20mA	2 10-bit 0-10V, 0-20mA 4-20mA	4 isolated 12-14-bit (software dependent) 0-10V, 0-20mA 4-20mA	4 isolated 12-14-bit (software dependent) 0-10V, 0-20mA 4-20mA	3 10-bit 0-10V, 0-20mA 4-20mA	3 10-bit 0-10V, 0-20mA 4-20mA & 2 14-bit 0-10V, 0-20mA 4-20mA	2 10-bit 0-10V, 0-20mA 4-20mA
Temperature Measurement	None	None	4 TC/PT100 and/or	4 TC/PT100 and/or	None	2 TC/PT100 and/or	None
Digital Outputs (isolated)	4 pnp/npn (including 2 High-speed outputs)	4 pnp/npn (including 2 High-speed outputs)	2 pnp/npn High-speed	17 pnp/npn (including 2 High-speed)	15 pnp, 2 pnp/npn (including 2 High-speed)	2 pnp/npn High-speed	28 pnp 2 pnp/npn High-speed
Relay Outputs (isolated)	10	10	15	15	None	15	None
Analog Outputs	None	2 12-bit 0-10V, 0-20mA 4-20mA	4 12-bit 0-10V, 0-20mA isolated	4 12-bit 0-10V, 0-20mA isolated	None	2 12-bit 0-10V, 0-20mA isolated	None

¹ V200-18-E6B, V200-18-E6B2 are not yet UL certified

Use these modules to enhance Vision's communication capabilities!

Ethernet	RS232/RS485	Isolated RS232/RS485	CANbus	Profibus
V100-17-ET2 (for V130 and V550 series) V200-19-ET1 (for V200, V500, V1040 and V1210 series)	V100-17-RS4 (for V130 and V550 series) V200-19-RS4 (for V200, V500, V1040 and V1210 series)	V100-17-RS4X (for V130 and V550 series) V200-19-RS4-X (for V200, V500, V1040 and V1210 series)	V100-17-CAN (for V130 and V550 series)	V100-17-PB1 (for V130 and V550 series)

¹ V200/V500/V1040/V1210: 1 optional port for serial or Ethernet V130/V550: 1 optional port for serial or Ethernet & 1 optional port for CANbus



GSM-KIT-41J
Kit including Entora GSM-300 0-Band Modem