

I/O Expansion Modules

Expand your system with local or remote I/O expansion modules.

Vision series support both local & remote I/O modules. M91 supports local modules only.

Digital Modules

IO-DI8-T08	IO-DI8-R04	IO-DI8-R08	EX90-DI8-R08 ³	IO-DI16
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 8 Relay Outputs	24VDC* 16 Digital Inputs, pnp/npn, including one High-speed Counter
IO-T016	IO-R08	IO-R016	IO-DI8ACH	
24VDC 16 pnp Transistor Outputs	24VDC* (power supply) 8 Relay Outputs	24VDC* (power supply) 16 Relay Outputs	110/220 VAC 8 AC Inputs	

*Also available as 12VDC – contact us for part number

High-speed Remote I/O Module

EXF-RC15 ^{2,5}
24VDC 9 Digital Inputs pnp/npn, including 3 high-speed counter, 4 npn Transistor Outputs, may function as high-speed PWM/PTO, 2 relay outputs

Analog, Temperature and Weight/Strain Measurements

IO-AI4-A02	IO-PT400	IO-PT4K
24VDC (power supply) 4 Analog Inputs 12-bit, 0-10V, 0-20mA, 4-20mA, 2 Analog Outputs, 12-bit+sign, ±10V, 0-20mA, 4-20mA	4 PT100/NI100/NI120 Inputs Range PT100: -50°C ÷ 460°C (-58°F ÷ 860°F) Range NI100: -50°C ÷ 232°C (-58°F ÷ 449°F) Range NI120: -50°C ÷ 172°C (-58°F ÷ 341°F) 12-bit	4 PT1000/NI1000 Inputs Range PT1000: -50°C ÷ 460°C (-58°F ÷ 860°F) Range NI1000: -50°C ÷ 232°C (-58°F ÷ 449°F) 12-bit
IO-A06X	IO-LC1 ⁴	IO-LC3 ⁴
24VDC (power supply) 6 Isolated Analog Outputs 0-10V, 0-20mA, 4-20mA 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 PLCs	8 Thermocouple/Analog Inputs T/C J, K, T, B, E, N, R, S, 0.1° Resolution, 0-10V, 0-20mA, 4-20mA, 12/14-bit

I/O Expansion Module Adapters

EX-A2X ¹
Local I/O module adapter. Galvanic isolation. Up to 8 modules may be connected to a single PLC1. Supports both 12/24 VDC
EX-RC1 ^{1,5}
Remote I/O module adapter, via CANbus. Connect multiple adapters to a single PLC; connect up to 8 modules per adapter. Supports both 12/24 VDC.

¹ Number of supported I/Os & I/O modules varies according to PLC model.

² The EXF-RC15 functions as a CANbus node in a Vision UniCAN network. The EXF-RC15 is stand-alone and does not support I/O Expansion Modules.

³ The EX90 is housed in an open casing. Only one EX90 can be connected per PLC, as a single expansion module; Expansion adapter not required.

⁴ IO-LCx models are supported by the M91 & Vision series. Not supported by the M90 series.

⁵ Supported by Vision series.
Not supported by M91 series.

XL Digital/Analog Modules

Functions as both I/O module and adapter*			
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

* Functions as local adapter. Can support up to 7 I/O modules

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 models.

Article No.	V200-18-E1B	V200-18-E2B	V200-18-E3XB	V200-18-E4XB	V200-18-E5B	V200-18-E6B	V200-18-E46B ¹	V200-18-E62B ¹
Digital Inputs (isolated)	16 npn/pnp (including 2 Shaft-encoder inputs)	16 npn/pnp (including 2 Shaft-encoder inputs)	18 npn/pnp (including 2 Shaft-encoder inputs)	18 npn/pnp (including 2 Shaft-encoder inputs)	18 npn/pnp (including 2 Shaft-encoder inputs)	18 npn/pnp (including 2 Shaft-encoder inputs)	18 npn/pnp (including 2 Shaft-encoder inputs)	30 npn/pnp (including 2 Shaft-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 and/or TC/PT100	4 isolated 12-14-bit (software dependent) 0-10V, 0-20mA 4-20mA and/or TC/PT100	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 and/or TC/PT100	9 3 10-bit, 0-10V 0-20mA, 4-20mA 6 14-bit 0-10V, 0-20mA 4-20mA	2 10-bit 0-10V, 0-20mA 4-20mA
Temperature Measurement	None	None			None		None	None
Digital Outputs (isolated)	4 npn/pnp (including 2 High-speed outputs)	4 npn/pnp (including 2 High-speed outputs)	2 npn/pnp High-speed	15 npn 2 npn/pnp (including 2 High-speed)	15 npn 2 npn/pnp (including 2 High-speed)	2 npn/pnp High-speed	2 (including 2 High-speed)	28 npn 2 npn/pnp High-speed
Relay Outputs (isolated)	10	10	15	None	None	15	15	None
Analog Outputs	None	2 12-bit 0-10V, 0-20mA 4-20mA	4 12-bit 0-10V, 4-20mA isolated	4 12-bit 0-10V, 4-20mA isolated	None	2 12-bit 0-10V, 4-20mA isolated	2 12-bit 0-10V, 4-20mA isolated	None

¹V200-18-E46B, V200-18-E62B are not yet UL certified

Additional COM Modules

Enhance Vision's communication capabilities¹

Vision Model	Ethernet	RS232/RS485	Isolated RS232/RS485	CANbus	Profibus
SAMBA	V100-17-ET2	V100-17-RS4	V100-17-RS4X	V100-17-CAN	None
V130, V350, V430	V100-17-ET2 V100-S-ET2 ²	V100-17-RS4	V100-17-RS4X	V100-17-CAN V100-S-CAN ²	V100-17-PB1
V200, V500, V700, V1040, V1210	V200-19-ET2	V200-19-RS4	V200-19-RS4-X	None	V100-17-PB1 ³

GSM-KIT-41J

Kit Including Enfora GSM1318 Q. Band Modem

GSM-KIT-16J

KIT, MODEM GPRS, CINTERION, BGS2T

GSM-KIT-17J-3G

KIT, MODEM GPRS, CINTERION, EHS6T

DIN-rail Power Supplies

UAP-24V24W	UAP-24V60W	UAP-24V96W
24W 24V 1A	60W 24V 2.5A	96W 24V 4A

¹ V200/V500/V1040/V1210: 1 optional port for serial or Ethernet

V130/V350: 1 optional port for serial or Ethernet & 1 optional port for CANbus/Profibus

² Extended temperature cards, operational temperature : -30°C to 60°C

³ Only for V700

