

ArmorPoint™ I/O

On-Machine™ IP65/67/69K Modular I/O Platform

Benefits

Modular IP65/67/69K Construction: Mount anywhere on the machine without a cabinet, close to the sensors and actuators, for shorter I/O cable runs.

Flexibility: Accommodates up to 63 I/O modules per network node. Bus extension cables allow separation of up to five clusters.

Software: Premier integration into Integrated Architecture with full Add-On Profiles in RSLogix 5000—no other software is needed.

Connectivity: Support for DeviceNet™, ControlNet™, EtherNet/IP and PROFIBUS®.

I/O Connector Choices: M8, M12 and M23 and 25-pin D-shell Quick Disconnect styles for easy integration.

Power Segmentation: Hardened power supplies allow for isolation—AC from DC, analog from digital, inputs from outputs.

Module Replacements: Unique latching mechanism makes replacement easy. No screws are needed.

IP67 Motor Starter Integration: Connects directly to ArmorStart™ on the same network node.

Full and Extensive I/O Status Diagnostic: Enables the PLC to monitor the health of remote I/O modules down to point level diagnostics.

Self Configuring: Provides greater flexibility and local control.



ArmorPoint is a modular On-Machine I/O system that saves valuable real estate. Based on the POINT™ I/O system—an established IP20 I/O system from Rockwell Automation—it reuses the circuitry of the adapter and I/O designs, and the methodology, to leverage your previous knowledge of POINT I/O and reduce training costs.

ArmorPoint features enhanced environmental characteristics, modular designs, and plug and play electronic capabilities to provide you with faster installation, simpler control and reduced errors. The system is IP65/67/69K* compliant and adheres to other certifications to provide a complete On-Machine solution. In addition, its quick disconnect features help eliminate wiring errors, minimize troubleshooting and help boost your plant's productivity.

On-Machine solutions offer simpler wiring layouts and connections. You can isolate problems and replace ArmorPoint locally to simplify troubleshooting and shorten Mean Time to Repair (MTTR). This helps eliminate the safety issues associated with maintenance within large cabinets.

* IP67(AC modules)

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Digital Output Products	Description
1738-0B16E25DS	24V DC 16 Source Output w/25 pins D-Shell
1738-0B16E19M23	24V DC 16 Source Output w/1 19-pin M23
1738-0B16EM12	24V DC 16 Source Output w/8 M12
1738-0B8EM23	24V DC 8 Source Output w/1 M23
1738-0B8EM12	24V DC 8 Source Output w/4 M12s
1738-0B8EM8	24V DC 8 Source Output w/8 M8s
1738-0B2EPM12	24V DC 2 Source Output w/1 M12
1738-0V4EM12	24V DC 4 Sink Output w/4 M12s

Self-Configuring I/O Products:

1738-8CFGM23	8 Channel Self-configuring Discrete I/O Module, w/M23
1738-8CFGDLXM23	8 Channel Self-configuring with DeviceLogix - w/M23
1738-8CFGM12	8 Channel Self-configuring Discrete I/O Module w/8 M12
1738-8CFGDLXM12	8 Channel Self-configuring with DeviceLogix w/8 M12
1738-8CFGM8	8 Channel Self-configuring Module, w/8 M8
1738-8CFGDLXM8	8 Channel Self-configuring with DeviceLogix - w/8 M8

Digital Input Products	Description
1738-IB16DM12	24V DC 16 Sink Input w/8 M12s
1738-IB8M12	24V DC 8 Sink Input w/4 M12s
1738-IB8M8	24V DC 8 Sink Input w/8 M8s
1738-IB4DM12	24V DC 4 Sink Input Diagnostic w/4 M12s
1738-IV8M12	24V DC 8 Sink Input w/4 M12
1738-IB8M23	24V DC 8 Sink Input w/1 M23

Analog Products	Description
1738-IE2CM12	24V DC 2 Analog Current Input w/2 M12s
1738-IE2VM12	24V DC 2 Analog Voltage Input w/2 M12s
1738-IE4CM12	24V DC 2 Analog Current Output w/2 M12s
1738-0E2VM12	24V DC 2 Analog Voltage Output w/2 M12s
1738-IT2IM12	24V DC 2 Thermocouple Input w/2 M12s
1738-IR2M12	24V DC 2 RTD Input w/2 M12s

AC and Relay Products	Description
1738-0W4M12	24V DC Coil N.O. Relay w/4 M12s
1738-0W4M12AC4	24V DC Coil N.O. Relay w/4 4-pin AC M12s
1738-IA2M12AC4	120V AC 2 Input w/2 4-pin AC M12s
1738-IA2M12AC3	120V AC 2 Input w/2 3-pin AC M12s
1738-OA2M12AC3	120/230V AC 2 Output w/2 3-pin AC M12s

Specialty Products	Description
1738-232ASCM12	RS232 ASCII Interface w/1 M12
1738-485ASCM12	RS485 ASCII Interface w/1 M12
1738-VHSC24M23	24V DC VHSC w/ Source Outputs w/1 M23
1738-IJM23	5 VDC* Incremental Encoder w/1 M23
1738-SSIM23	SSI Absolute Encoder Interface w/1 M23

Adapter Products	Description
1738-ADN12	DeviceNet Adapter with 2 M12 connectors
1738-ADN18	DeviceNet Adapter with 1 Mini connectors
1738-ADN18P	DeviceNet Adapter with 2 Mini connectors
1738-ADNX	DeviceNet Adapter with Sub-net expansion
1738-APB	PROFIBUS Adapter
1738-ACNR	Redundant ControlNet Adapter
1738-AENT	EtherNet/IP Adapter
1738-AENTR	EtherNet/IP Adapter with Built-in Dual-port Switch

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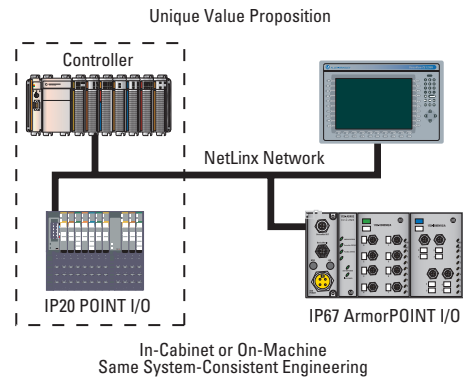
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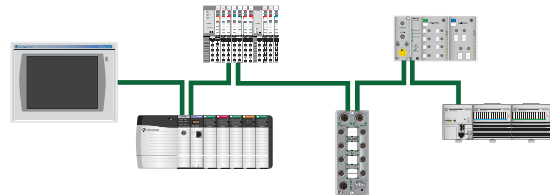
Accessories	Description
1738-EXT1	1m Bus Extension
1738-EXT3	3m Bus Extension
1738-CBL 3M25DS	3m D-Shell Cable for 1738-0B16E 25DS
280A-EXT1	ArmorPOINT to ArmorStart 1m Bus Extension
280A-EXTCABLE	ArmorStart to ArmorStart Bus Extension
Power Supply Products	Description
1738-FPD	Power Isolation Module
1738-EP24DC	24V DC Power Extension

* Field voltage supply to encoder dependent on field power source.

ArmorPOINT provides consistent ease of integration regardless of environment (IP20 or IP67).



Dual Port Adapters enable Linear topology on EtherNet/IP, saving the costs of a centralized switch and additional cabling.



Dual Port Adapters, coupled with the 1756-EN2TR supervisor-capable device, enable the use of Ring topology for greater system resilience.

