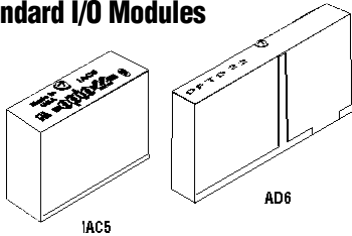


Standard I/O Modules



Both analog and digital modules are available in Opto 22's standard packaging. Standard digital modules offer a wide range of voltage and speed combinations and are available for 5, 15, or 24-volt logic. Analog modules offer 12-bit resolution. Analog input modules include voltage, current, thermocouple, RTD, ICTD, and frequency. Both voltage and current analog outputs are available.

Standard Digital Modules

**Standard Digital AC Inputs (Brain Board Compatible)**

691-0047. IAC5. AC Input 90-140 VAC, 5 VDC Logic.....	EACH	9.50
691-0048. IAC5A. AC Input 180-280 VAC, 5 VDC Logic.....	EACH	10.50

**Standard Digital AC Outputs**

691-0049. IAC15. AC Input 90-140 VAC, 15 VDC Logic.....	EACH	9.50
691-0051. IAC24. AC Input 90-140 VAC, 24 VDC Logic.....	EACH	9.50
691-0052. IAC24A. AC Input 180-280 VAC, 24 VDC Logic.....	EACH	9.50

**Standard Digital DC Inputs (Brain Board Compatible)**

691-0054. IDC5. DC Input 10-32 VDC, 5 VDC Logic.....	EACH	9.50
691-0055. IDC5B. DC Input 4-16 VDC, 5 VDC Logic High Speed.....	EACH	13.00
691-0056. IDC5D. DC Input 2.5-28 VDC, 5 VDC Logic.....	EACH	8.50

**Standard Digital DC Outputs**

691-0058. IDC15. DC Input 10-32 VDC, 15 VDC Logic.....	EACH	9.50
691-0059. IDC24. DC Input 10-32 VDC, 24 VDC Logic.....	EACH	9.50

**Standard Digital AC Outputs (Brain Board Compatible)**

691-0060. OAC5. AC Output 12-140 VAC, 5 VDC Logic.....	EACH	9.50
691-0061. OAC5A. AC Output 24-280 VAC, 5 VDC Logic.....	EACH	10.50
691-0062. OAC5A5. AC Output 24-280 VAC, 5 VDC Logic, NC.....	EACH	10.50

Standard Digital Modules (Continued)

**Standard Digital AC Outputs**

691-0063. OAC15. AC Output 12-140 VAC, 15 VDC Logic.....	EACH	9.50
691-0064. OAC15A. AC Output 24-280 VAC, 15 VDC Logic.....	EACH	10.50
691-0065. OAC24. AC Output 12-140 VAC, 24 VDC Logic.....	EACH	9.50
691-0066. OAC24A. AC Output 24-280 VAC, 24 VDC Logic.....	EACH	10.50

**Standard Digital DC Outputs (Brain Board Compatible)**

691-0069. ODC5. DC Output 5-60 VDC, 5 VDC Logic.....	EACH	9.50
691-0070. ODC5A. DC Output 5-200 VDC, 5 VDC Logic.....	EACH	15.40
691-0071. ODC5R. Reed Relay Output, 5 VDC Logic.....	EACH	10.50

**Standard Digital DC Outputs**

691-0072. ODC15. DC Output 5-60 VDC, 15 VDC Logic.....	EACH	9.50
691-0074. ODC24. DC Output 5-60 VDC, 24 VDC Logic.....	EACH	9.50
691-0075. ODC24A. DC Output 5-200 VDC, 24 VDC Logic.....	EACH	15.40

Standard Analog Modules

**Standard Analog Inputs**

691-0077. AD3. 4 to 20 mA Input.....	EACH	45.00
691-0078. AD3T. 4 to 20 mA Input Isolated.....	EACH	100.00
691-0079. AD4. ICTD Input.....	EACH	60.00
691-0081. AD5T. J Thermocouple Input Isolated.....	EACH	120.00
691-0082. AD6. 0 to +5 VDC Input.....	EACH	55.00
691-0083. AD6HS. 0 to +5 VDC Input-High Speed.....	EACH	55.00
691-0084. AD6T. 0 to +5 VDC Input Isolated.....	EACH	100.00
691-0085. AD7. 0 to +10 VDC Input.....	EACH	55.00
691-0087. AD8T. K Thermocouple Input Isolated.....	EACH	120.00
691-0088. AD9T. 0 to 50 mV Input Isolated.....	EACH	120.00
691-0089. AD10T2. 100 Ohm RTD Input Isolated.....	EACH	120.00
691-0094. AD13T. 0 to 100 mV Input Isolated.....	EACH	120.00
691-0097. AD16T. 0 - 5 Amp Input Isolated.....	EACH	120.00
691-0099. AD18T. T Thermocouple Input Isolated.....	EACH	120.00

**Standard Analog Outputs**

691-0102. DA3. 4-20 mA Output.....	EACH	95.00
691-0103. DA3T. 4-20 mA Output Isolated.....	EACH	105.00
691-0104. DA4. 0 to +5 VDC Output.....	EACH	95.00
691-0105. DA4T. 0 to +5 VDC Output Isolated.....	EACH	105.00
691-0106. DA5. 0 to +10 VDC Output.....	EACH	95.00
691-0107. DA6. -5 to +5 VDC Output.....	EACH	110.00
691-0108. DA7. -10 to +10 VDC Output.....	EACH	110.00

Standard Module Accessories

691-0110. FUSE05. 5-Amp Fuse Standard Digital Output Modules.....	EACH	1.00
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Quad Pak I/O Modules



Quad Pak modules each contain four single channels of digital I/O in one high-density package. Each Quad Pak module includes an integral LED for each channel on the module.

Quad Pak Digital Modules

**Quad AC Inputs**

691-0232. IAC5Q. 4-Channel 90-140 VAC, 5 VDC Logic.....	EACH	35.00
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**Quad DC Inputs, 4-Channel**

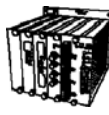
691-0233. IDC5Q. 4-16 VDC, 5 VDC Logic, High Speed.....	EACH	45.00
691-0234. IDC5Q. 10-32 VDC, 5 VDC Logic.....	EACH	35.00

**Quad AC Outputs**

691-0235. OAC5Q. 4-Channel 12-280 VAC, 5 VDC Logic.....	EACH	35.00
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**Quad DC Outputs**

691-0237. ODC5Q. 4-Channel 5-60 VDC, 5 VDC Logic.....	EACH	35.00
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SNAP-LCM4 Modular M4 Industrial Controller

- ▶ One Dedicated Opto 22 Remote I/O Port
- ▶ Three RS-232 or RS-485 Serial Ports

The SNAP-LCM4 modular controller features powerful communications capabilities, built-in diagnostics, a 32-bit processor and a variety of expansion options. Controllers are designed to take advantage of the Opto 22 intelligent distributed I/O architecture and provide a solid hardware foundation for Opto 22's Windows 32-bit FactoryFloor software suite. The SNAP-LCM4 packs power and performance in a package that integrates seamlessly with other Opto 22 SNAP products. Designed specifically for industrial applications, the controller provides ethernet, ARCNET and serial communication options for unmatched flexibility. Serial ports provide an interface with radio modems, cellular modems and even satellite communication equipment as well as any third-party serial device.

691-1114. SNAP-LCM4. SNAP Modular M4 Controller.....	EACH	2084.42
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G4 I/O Modules

G4 I/O includes both digital and analog modules. Each G4 module offers high-density single-channel packaging. Each digital module includes an LED status indicator and is also available with manual switching capability for field wiring and control logic testing. Digital modules support 5, 15, or 24-volt logic. G4 digital output modules feature a top-mounted replaceable fuse. G4 analog modules are factory-calibrated, offer 12-bit resolution, and require a single 24-volt power supply. All current loop modules include an isolated loop power supply for added flexibility and reduced instrumentation costs. Input types include voltage, current, thermocouple, RTD, ICTD, frequency, and velocity. Outputs include voltage, current, and time-proportional output.

G4 Digital Modules

**G4 Digital AC Inputs (Brain Board Compatible)**

691-0111. G4IAC5. G4 AC Input 90-140 VAC, 5 VDC Logic.....	EACH	9.50
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**G4 Digital AC Outputs**

691-0114. G4IAC15. G4 AC Input 90-140 VAC, 15 VDC Logic.....	EACH	9.50
691-0116. G4IAC24. G4 AC Input 90-140 VAC, 24 VDC Logic.....	EACH	9.50
691-0117. G4IAC24A. G4 AC Input 180-280 VAC, 24 VDC Logic.....	EACH	10.50
691-0118. G4SWIN. G4 Input Switch 5, 15, 24 VDC Logic.....	EACH	19.00

**G4 Digital DC Inputs (Brain Board Compatible)**

691-0119. G4IDC5. G4 DC Input 10-32 VDC, 5 VDC Logic.....	EACH	9.50
691-0120. G4IDC5B. G4 DC Input 4-16 VDC, 5VDC Logic High Speed.....	EACH	13.00
691-0121. G4IDC5D. G4 DC Input 2.5-28 VDC, 5 VDC Logic.....	EACH	8.50
691-0123. G4IDC5K. G4 DC Input 2.5-16 VDC, 5 VDC Logic Very High Speed.....	EACH	13.00
691-0124. G4IDC5MA. G4 DC Input 10-32 VDC, 5 VDC Logic With Hoa/SW.....	EACH	21.00

**G4 Digital DC Outputs**

691-0128. G4IDC15. G4 DC Input 10-32 VDC, 15 VDC Logic.....	EACH	9.50
691-0127. G4IDC24. G4 DC Input 10-32 VDC, 24 VDC Logic.....	EACH	9.50

**G4 Digital AC Outputs (Brain Board Compatible)**

691-0128. G4OAC5. G4 AC Output 12-140 VAC, 5 VDC Logic.....	EACH	9.50
691-0129. G4OAC5A. G4 AC Output 24-280 VAC, 5 VDC Logic.....	EACH	10.50
691-0130. G4OAC5A5. G4 AC Output 24-280 VAC, 5 VDC Logic NC.....	EACH	10.50
691-0131. G4OAC5A5FM. G4 AC Output 24-280 VAC, 5 VDC Logic, NC, FM.....	EACH	11.50
691-0134. G4OAC5MA. G4 AC Output 12-140 VAC, 5 VDC Logic With Hoa/SW.....	EACH	21.00

**G4 Digital AC Outputs**

691-0135. G4OAC15. G4 AC Output 12-140 VAC, 15 VDC Logic.....	EACH	9.50
691-0136. G4OAC15A. G4 AC Output 24-280 VAC, 15 VDC Logic.....	EACH	10.50
691-0137. G4OAC24. G4 AC Output 12-140 VAC, 24 VDC Logic.....	EACH	9.50
691-0138. G4OAC24A. G4 AC Output 24-280 VAC, 24 VDC Logic.....	EACH	10.50

**G4 Digital DC Outputs (Brain Board Compatible)**

691-0140. G4ODC5. G4 DC Output 5-60 VDC, 5 VDC Logic.....	EACH	9.50
691-0143. G4ODC5FM. G4 DC Output 5-60 VDC, 5 VDC Logic, FM Approved.....	EACH	10.50
691-0144. G4ODC5MA. G4 DC Output 5-60 VDC, 5 VDC Logic With Hoa/SW.....	EACH	21.00
691-0145. G4ODC5R. G4 Reed Relay Output, 5 VDC Logic.....	EACH	10.50
691-0146. G4ODC5R5. G4 Reed Relay Output, 5 VDC Logic, NC.....	EACH	10.50
691-5528. G4ODC5RFM. G4 Reed Relay Output, 5 VDC Logic, FM Approved.....	EACH	11.50

**G4 Digital DC Outputs**

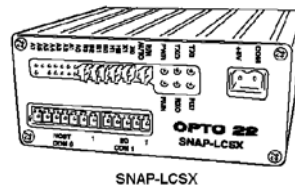
691-0149. G4ODC15. G4 DC Output 5-60 VDC, 15 VDC Logic.....	EACH	9.50
691-0150. G4ODC24. G4 DC Output 5-60 VDC, 24 VDC Logic.....	EACH	9.50
691-0151. G4ODC24A. G4 DC Output 5-200 VDC, 24 VDC Logic.....	EACH	15.40

**G4 Analog Modules**

**G4 Module Accessories**

691-0184. FUSEG4. G4 4-Amp Fuse, R5026 TR5-F.....	EACH	1.00
691-0187. G4-MOD-SOCKETS. G4 --- Module Socket.....	PER PK./100	10.00
691-0188. G4-PEM-NUTS. G4 Pem Nut.....	PER PK./100	10.00
691-0189. ICTD. Temperature Probe for AD4G4AD4.....	EACH	27.00

SNAP Industrial Controllers



SNAP controllers work with SNAP I/O systems to provide powerful distributed control in a small footprint. The SNAP-LCM4 is Opto 22's fastest controller to date, ideal for control and communication to I/O systems, serial devices, motion controllers, and networks. The SNAP-LCM4 features powerful communications capabilities including Ethernet, ARCNET, and serial. Serial ports provide an interface with Opto 22 I/O, radio modems, cellular modems, even satellite communications equipment, as well as any third-party serial device. The SNAP-LCM4 includes built-in diagnostics, a 32-bit Motorola processor, 4 MB RAM, and four expansion slots. The SNAP-LCSX and SNAP-LCSX-PLUS controllers are the cost-effective answer to applications requiring small, powerful, real-time industrial control. Both contain 32-bit processors capable of a wide range of computing functions. The SNAP-LCSX has two COM ports and the SNAP-LCSX-PLUS has four. Each controller has 1 MB of RAM.

691-1103. SNAP-LCSX. SNAP Controller with 2 COM Ports, FM Approved.....	EACH	632.48
691-1104. SNAP-LCSX-PLUS. SNAP Controller with 4 COM Ports, FM Approved.....	EACH	695.00

Interfaces

Opto 22's interface layer is divided into two segments: Interface Cards for Opto 22 controllers and Traditional adapter cards that support a wide variety of communication options. Traditional adapter cards include PC adapter cards and standalone adapter cards to facilitate communication between Opto 22's control system and a wide range of third-party computers, devices, and protocols. Opto 22 offers a variety of bus-based adapters to fully harness the power of the PC in industrial control.

Traditional Adapter Cards

**PC Adapter Cards**

PC adapter cards provide a direct connection from the PC to Opto 22 serial addressable intelligent I/O and parallel addressable I/O as well as direct connection to I/O mounting racks. PC adapter cards are designed to provide high-speed, noise-immune communications to many third-party devices.

691-0301. ACS. ISA Bus to Card Edge I/O Rack with 6-Ft Cable.....	EACH	140.00
691-0302. G4ACS. ISA Bus to Header I/O Rack with 6-Ft Cable.....	EACH	140.00
691-0303. AC24AT. ISA Bus Serial Port RS422/485, Isolated.....	EACH	190.00
691-0304. AC28. ISA Bus to Pamux Bus Adapter.....	EACH	170.00

**Stand Alone Adapter Cards**

Standalone adapter cards include the latest in fiber optic repeaters, and provide RS232 to RS485 conversion, modem support, and addressability for RS232 devices.

691-0309. AC7. RS232 to 422/485 Converter.....	EACH	85.00
691-0310. AC7A. RS232-RS422/485 Converter 120 V.....	EACH	105.00
691-0326. TERIM 1. Pamux Bus Termination Card.....	EACH	30.00
691-5526. PCI-ACS. PCI Bus to Header I/O Rack with 6' Cable.....	EACH	315.00
691-5527. PCI-AC28. PCI Bus to Pamux Bus Adapter.....	EACH	315.00

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