

ITEM # 1

G4 digital 16-channel rack with header connector

Operating temperature:	0 to 70 °C 95 percent relative humidity, non-condensing
Interface connectors Field: Control: Power:	Screw-type barrier strip accommodates up to 10 AWG wire 50-conductor header connector Two-position screw terminal or Opto 22 PBSA/B/C Power Supply (Use with a 5.00 VDC +0.1 VDC power source.)

ITEM # 2

Assembly OPTO 22 Analog Brain Board B2 populated with Seven (7) AD6 0-5Vdc, one (1) AD7 0-10Vdc, and seven (7) AD19T "E" type TC.

The B2 brain board is an intelligent processor that operates as a slave device to a host computer via an RS-422/485 serial link. The B2 mounts on Opto 22 I/O racks with header connectors to control Standard (G1) analog I/O modules. The B2 uses the Optomux protocol.

B2 Power Requirements	5 .0 - 5.2 VDC @ 0.5 amps (excludes analog module requirements*)
Operating Temperature	0 °C to 70 °C 95% humidity, non-condensing
Interface	RS-422/485 communications 50-pin female header connector to I/O mounting rack
Data Rates	300, 600, 1200, 2400, 4800, 9600, 19200, and 38400 baud
Range: Multidrop Repeat Mode	Up to 5,000 feet total length with up to 32 Optomux stations maximum. **

	Up to 5,000 feet between stations with up to 256 Optomux stations maximum.
Communications	Full duplex, two twisted pairs, a signal common wire, and a shield
LEDs	Power, receive, and transmit
Jumper-selectable Options	Address (0 to 255) Baud rate Multidrop or repeat mode 2- or 4-pass protocol
<p>** $\pm 15 \text{ VDC} \pm 0.25 \text{ V}$ required for the analog modules. Current depends on the number and type of modules installed. A 24 VDC power supply is required for analog modules that need a current loop source.</p> <p>* Extend line length and/or number of OPTOMUX stations with the AC30A/B network adapter.</p>	

ITEM # 3

Assembly OPTO 22 Analog Brain Board B2 populated with thirteen (13) AD6 0-5Vdc, three (3) AD7 0-10Vdc.

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ITEM # 4

Assembly Dutec IOPlaxer populated with ten (10) "E" type TC

The I/O PLEXER is a complete, industrial-grade, remote I/O controller which can operate under the control of a host computer via a serial communications link, or in a [STANDALONE](#) mode, with or without supervision. By locating I/O PLEXERS near the process, the serial link eliminates the expense of lengthy, noise-prone analog sensor and actuator field wiring. Because the I/O PLEXER supports *any mix* of a [large variety of analog and digital I/O signals](#), the requirements of virtually any process can be accommodated. Omni-isolated I/O modules provide 1,500 volts of isolation protection between each and *every* I/O line, host computer and power supplies.

Omni-isolated I/O, and the ability to mix and match individual analog or digital signals* from virtually any sensor or actuator reduces system design, installation and trouble shooting costs, as well as simplifying future maintenance and system expansion. I/O PLEXERS, complete with a built-in wide range power supply, are shipped ready to connect to your sensors, actuators, host's serial port and power. A [single](#) I/O PLEXER can handle any mix of 16 analog and/or digital I/O points. With expanders, the number of digital I/O points can be increased by up to 48. An I/O PLEXER *network* can serve a mix of over 1,000 analog and digital I/O lines.

The host computer uses RS-232 or RS-422/485 to communicate with I/O PLEXERS spaced up to 4,000 feet apart. Using telephone or radio modems, the distance is virtually unlimited.