

Part Number	Description
SNAP-BRS	Remote Digital Brain, Serial, Mystic Protocol

Description

The SNAP-BRS is a high-performance *digital* brain used to remotely control up to 32 digital I/O channels using Opto 22's SNAP "B Series" 8-position I/O mounting racks. SNAP-BRS can be used with either an Opto 22 controller or a host computer. On-board intelligence enables distributed control functions. The SNAP-BRS brain can be combined with other SNAP "B Series" racks and brains to provide the world's most powerful and sophisticated I/O handling systems.

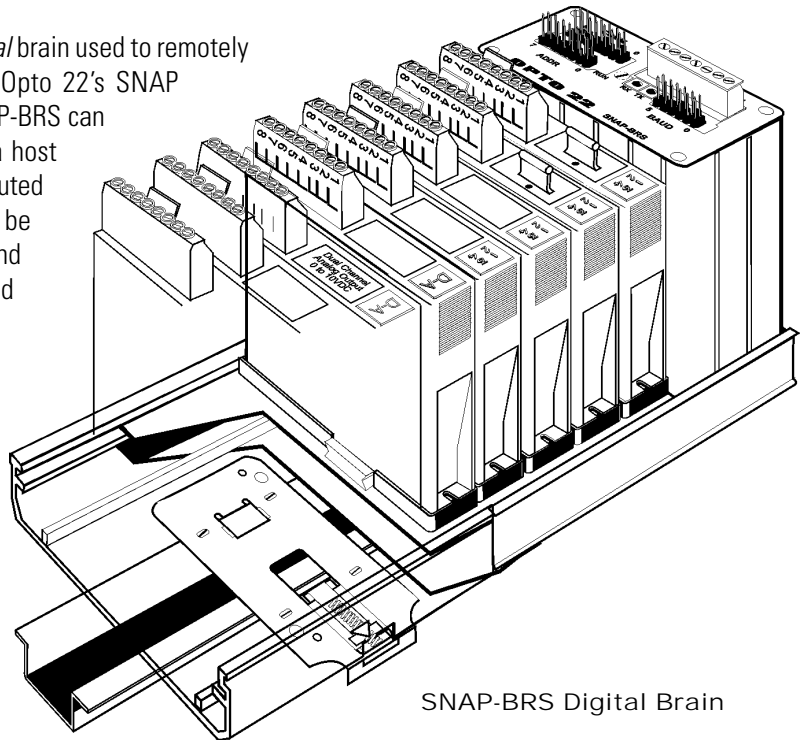
The SNAP-BRS communicates with a host processor serially over RS-485 twisted pair wiring, and supports the advanced Mystic[®] protocol. Designed for high-speed input and output, the functions supported by the BRS family include read, write, and latching.

By using the SNAP-BRS family with the Mystic protocol and a controller, SNAP I/O customers can take advantage of FactoryFloor[®], Opto 22's impressive new suite of Windows[®] 32-bit software that delivers total control to industrial automation customers. FactoryFloor consists of four integrated components:

- OptoControl[™], a graphical, flowchart-based development environment for control solutions
- OptoDisplay[™], a graphical, multimedia operator interface package
- OptoServer[™], a robust data server that connects the controller network with the PC-based FactoryFloor network
- OptoConnect[™], a drag-and-drop database utility that makes building SQL Server and Access databases a snap.

OptoControl is the cornerstone of Opto 22's FactoryFloor software, and is the programming environment that leverages all the power of Opto 22's distributed hardware platform. OptoControl utilizes the distributed control capability of the SNAP-BRS brain and takes advantage of the graphical Windows 95 or NT interface to make it easy to configure, design, and troubleshoot your control system.

Opto 22's OptoDriver Toolkit may be used for direct communications from a host PC to the SNAP-BRS. The toolkit includes new 32-bit Windows-compatible drivers, Windows 16-bit drivers, and Opto 22's Classic DOS drivers.

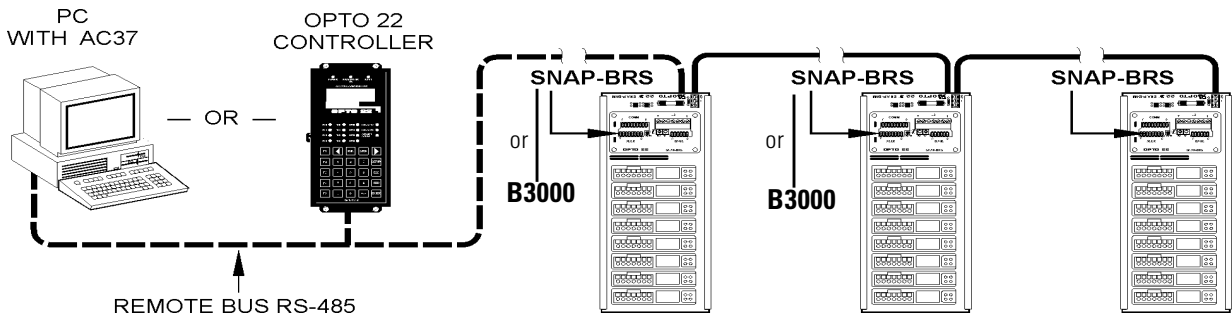


SNAP-BRS Digital Brain

Form 956-050221

Description

System Architecture



Specifications

General

Power Requirements	5.0 VDC \pm 0.1 VDC @ 1.0A max.
Operating Temperature	0 to 70° C, 95% humidity, non-condensing
CPU	8-bit 8051 processor
Communications Interface	Supports 2-wire or 4-wire RS-485 using twisted pair cable with shield
Data Rates	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 76800, and 115200 baud
Range: (Multidrop)	Up to 3,000 feet and 32 stations maximum between repeaters
LED Indicators	RUN (Power On), RCV (Receive), XMT (Transmit)
Options: Jumper Selectable	Address, communication, baud rate, CRC/Checksum, Binary/ASCII

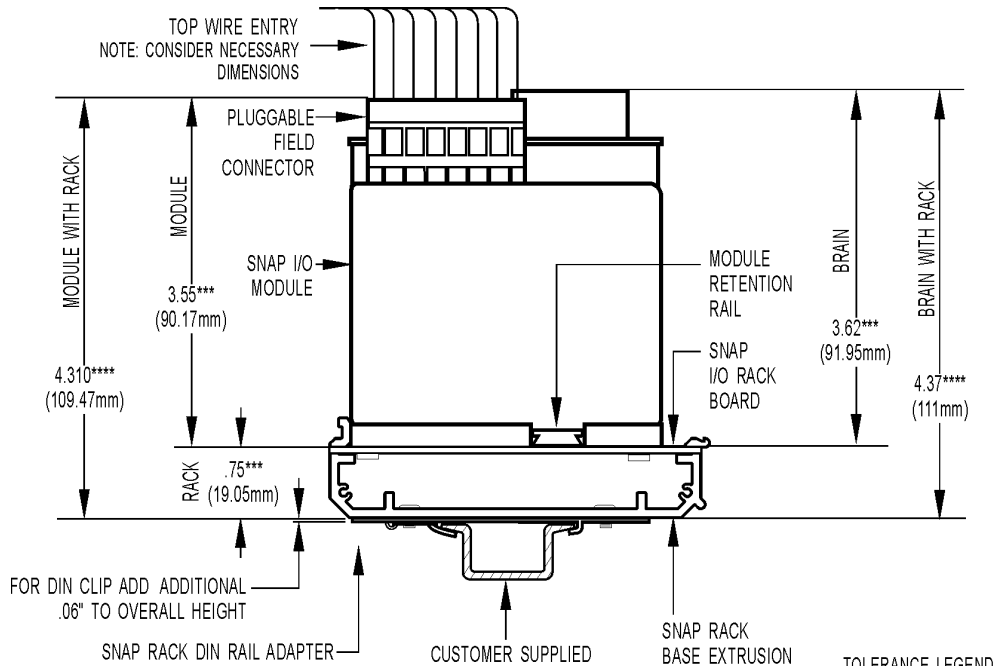
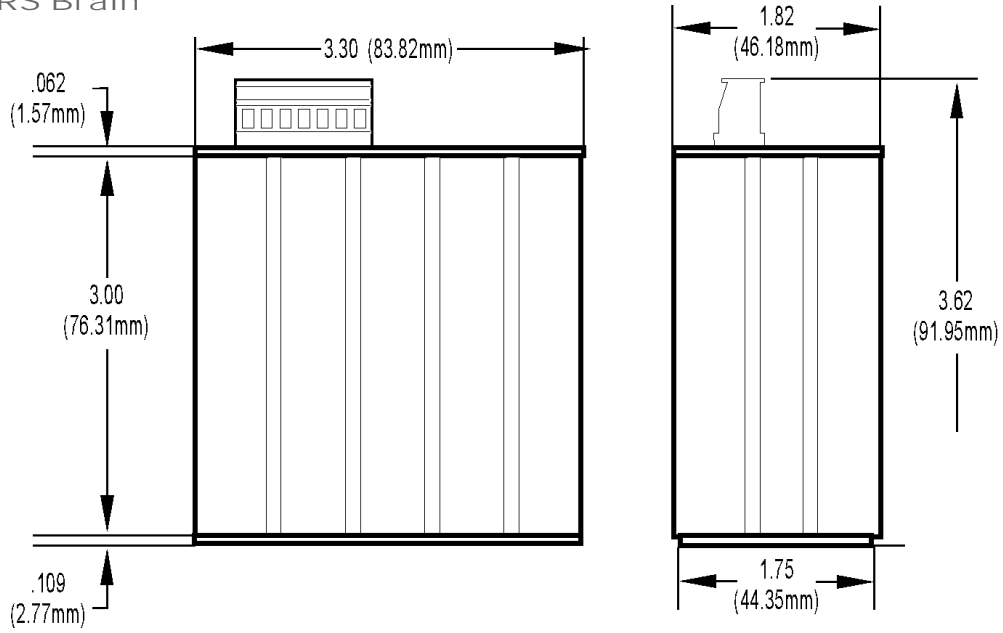
Command Set:

Setup And System Commands

Setup and System Commands	Digital Read/Write, Latch Commands
Identify Unit	Read and optionally clear input latches (group command)
Power up clear	Read and optionally clear input latch
Repeat last response	Read module status
Reset	Set output module state (group command)
Set response delay	Set output Clear output

Form 956-050221

Dimensions SNAP-BRS Brain



FOR DIN CLIP ADD ADDITIONAL
.06" TO OVERALL HEIGHT

SNAP RACK DIN RAIL ADAPTER

CUSTOMER SUPPLIED
35mm DIN RAIL

NOTE: BE SURE TO CONSIDER
DIN RAIL DIMENSIONS.
(DIN RAIL MUST BE MOUNTED
HORIZONTALLY TO USE SNAP I/O
WITHOUT MODULE HOLD-DOWN SCREWS)

SNAP RACK
BASE EXTRUSION

TOLERANCE LEGEND

* +/- .010"
** +/- .020"
*** +/- .030"
**** +/- .060"
NO * REFERENCE ONLY