OPTO 22

DATA SHEET

Form 738-050801

Part Number	Description
B5	16-Channel Digital Brain Pamux

Introduction

The Pamux® B5 is an addressable digital brain board that can control up to 16 input or output points in distributed I/O applications. The B5 is designed for use with a variety of Opto 22 I/O mounting racks, including racks that accept single-point digital I/O or quad pak digital I/O as well as racks with integrated digital I/O circuitry.

The B5 features a 50-pin female connector to attach to a mounting rack and two 50-pin male connectors to attach to the Pamux bus or a terminator board. Up to 32 B5 brain boards may be linked on a single Pamux bus to control up to 512 points of digital I/O. Each B5 requires 5 VDC ±0.1 V @ 0.5 A (plus an additional 0.5 A if a terminator board is installed).

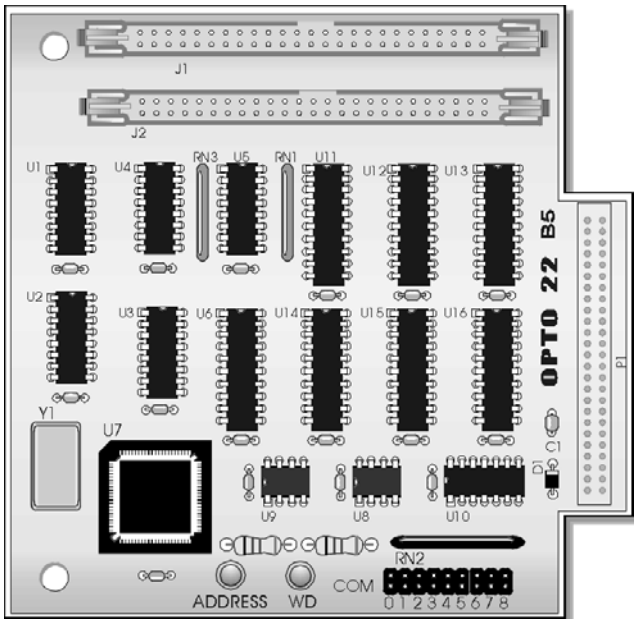

Figure 1: B5 Brain Board

This document describes how to install the B5 digital I/O brain board on a compatible mounting rack. It discusses all B5 configuration issues, including how to set jumpers for the address, watchdog, and reset line. It also explains how to install a terminator board when a B5 station is at one end of a Pamux system. Finally, it describes the LED indicators on the B5 and provides information on Opto 22 Product Support.

For complete information on the Pamux system, call Opto 22 at 800/321-6786 and request the *Pamux User's Guide* (form 726).

Installing the B5 on a Mounting Rack

The B5 brain board measures 4.6 by 4.5 inches. It includes a 50-pin female connector to attach to a digital I/O mounting rack. At the top of the brain board are two 50-pin male header connectors used to link the brain board to the Pamux bus. For the last brain board on a Pamux bus, one of these connectors holds the terminator board.

Figure 2 is a detailed illustration of the B5 along with its dimensions.

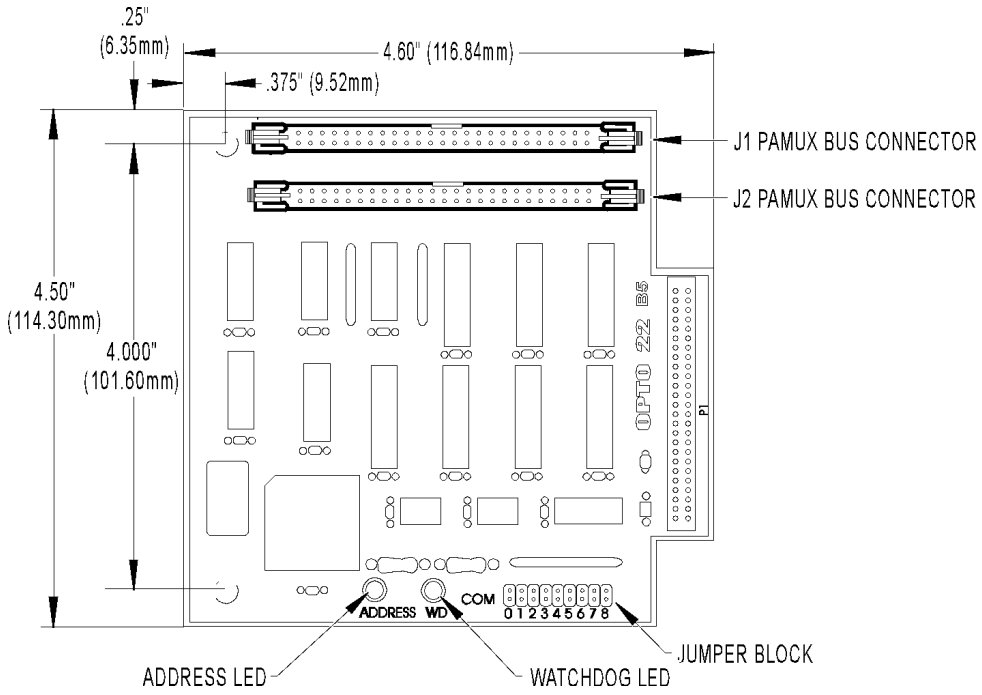

Figure 2: Dimensions of the B5 Brain Board

The following I/O mounting racks are available for the Pamux B5 brain board:

- G4PB8H — *8 channels of single-point G4 digital I/O*
- G4PB16H — *16 channels of single-point G4 digital I/O*
- G4PB16HC — *16 channels of single-point G4 digital I/O*
- G4PB16J/K/L — *16 channels of integrated single-point digital inputs*
- PB4H — *4 channels of single-point standard digital I/O*
- PB8H — *8 channels of single-point standard digital I/O*
- PB16H — *16 channels of single-point standard digital I/O*
- PB16HC — *16 channels of single-point standard digital I/O*
- PB16HQ — *4 channels of quad pak I/O (four points per module)*
- PB16J/K/L — *16 channels of integrated single-point digital inputs*

Figure 3 shows how the B5 brain board mounts on these racks.

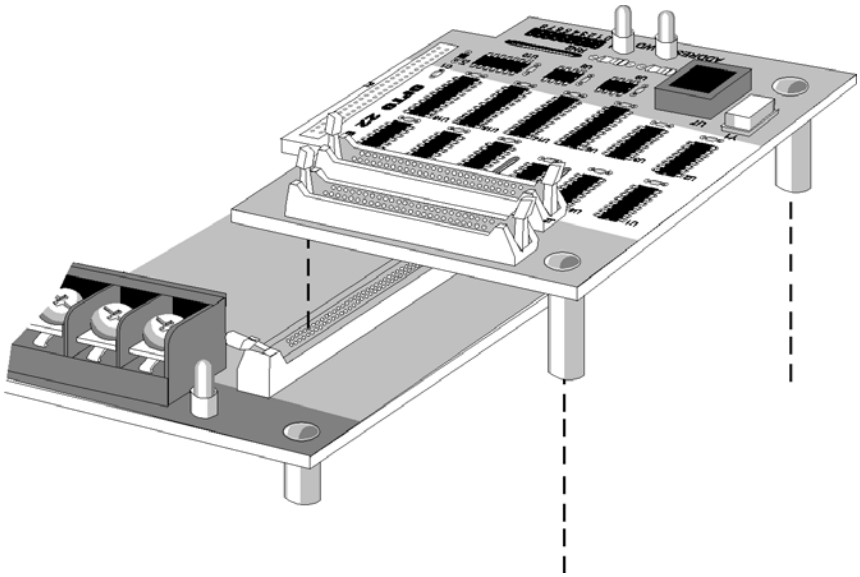

Figure 3: Installation of the B5 on a Mounting Rack

Figures 4 through 13 show the mounting dimensions of these racks with the B5 brain board installed.

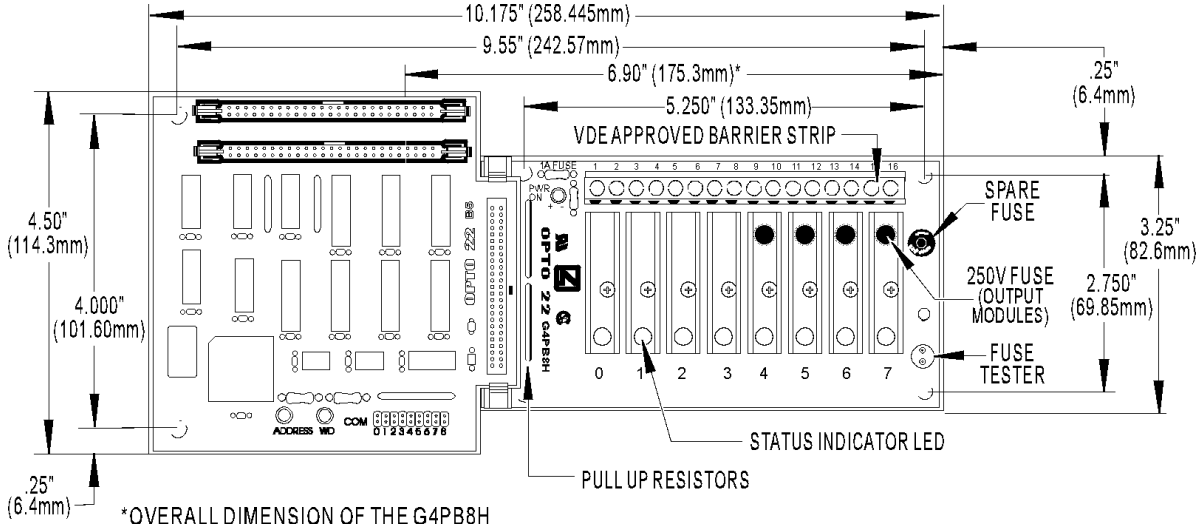

Figure 4: Mounting Dimensions of the G4PB8H with a B5 Installed