# M1510
# BUS DEVICE SELECTOR MODULE

**PDP-8/E, 8/M OMNIBUS**

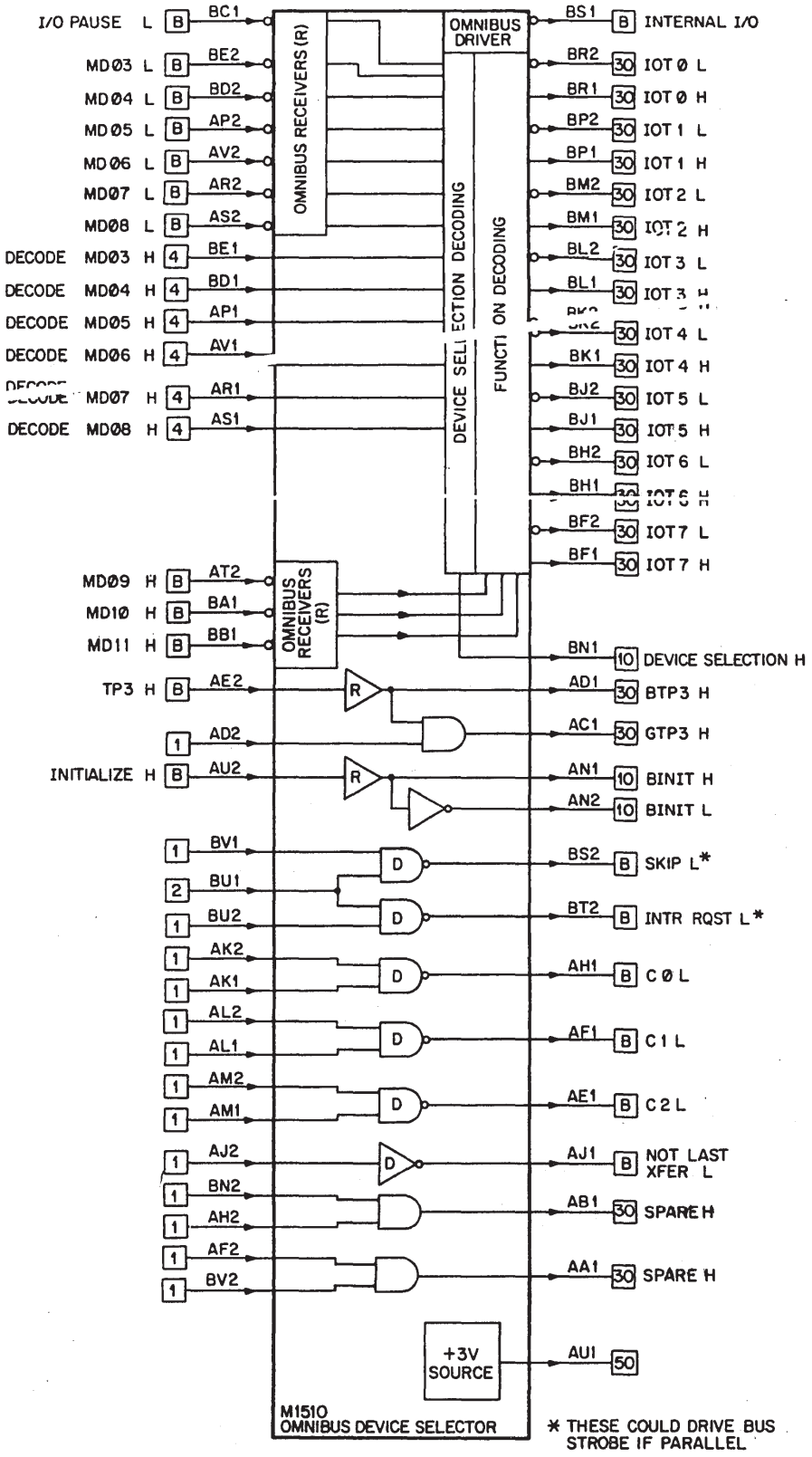
**M SERIES**

**Length:** Extended
**Height:** Double
**Width:** Single

| Volts | Power mA (max.) | Pins |
|---|---|---|
| +5 | 600 | AA2, BA2 |
| GND | | AC2, AT1, BC2, BT1 |

**Price:**

**$100**



The M1510 Bus Device Selector is designed for use with the PDP-8/e and PDP-8/m computers. It provides a convenient and efficient method of decoding the device code for an interface system. The M1510 decodes the six device selection bits to produce a device selection level. It also decodes the three function selection bits to produce a one-of-eight function level output.

The M1510 contains bus drivers for: SKIP, INT RQST, C0, C1, C2 (control signals), INTERNAL I/O, and NOT LAST XFER; bus receivers for INITIALIZE, TP3, I/O PAUSE, MD LINES; and a binary-to-octal decoder for MD LINE decoding and generating a one-of-eight function level signal.

## APPLICATIONS

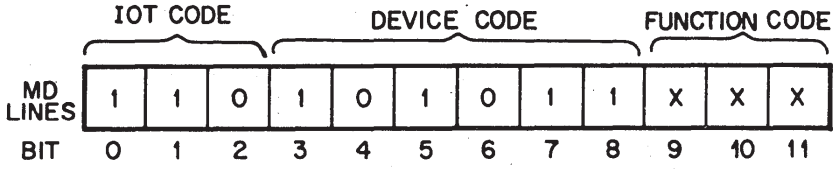
This module is designed for use in bus expansion hardware such as:

H9190 Bus Expander (PDP-8/e OMNIBUS)

**Restrictions:** The module is electrically, but not mechanically, compatible with the PDP-8/e OMNIBUS. Do not plug the module directly into the OMNIBUS. OMNIBUS signals may be connected to appropriate module pins by backplane wiring.

## FUNCTIONS

**Decoding:** To decode a device code on MD lines 03 through 08, enter the code in the DECODE MD inputs by grounding the zeroes and leaving the ones disconnected. The example below shows the connections that will detect device code 53 (octal).



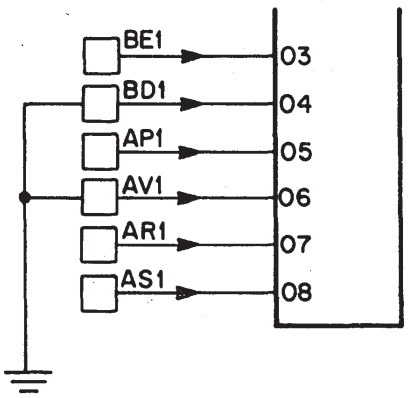




Figure 1. Detecting Device Code 53 (octal)

**Spare Circuits:** Additional AND gates, open collector NAND gate drivers and non-inverting drivers are available on the M1510. These devices are useful as general M Series devices if some standard bus signals (e.g., TP3, INIT, C LINES) are not needed.

**SPECIFICATIONS**
**Propagation Time:**

| FROM | TO | ns (max.) |
|---|---|---|
| I/O PAUSE | Device Selection Output | 100 |
| | IOT Outputs | 100 |