



# Product Bulletin

## 16 Bit Access Adapter for PROTO-8

PB7578

P8-16

### FEATURES

- Upgrades our PROTO-8 to allow easy 16 bit PC/104 development
- All J2/P2 signals are clearly labeled and accessible
- Shift between 16 bit and 8 bit PC/104 projects by simply adding or removing the P8-16 as needed
- Works with existing PROTO-8 decoding logic and circuitry
- No soldering required. Connections are made by inserting solid wire or component leads into socket strip

### APPLICATIONS

- PC/104 Product development
- Education and training
- Custom 16 bit PC/104 designs

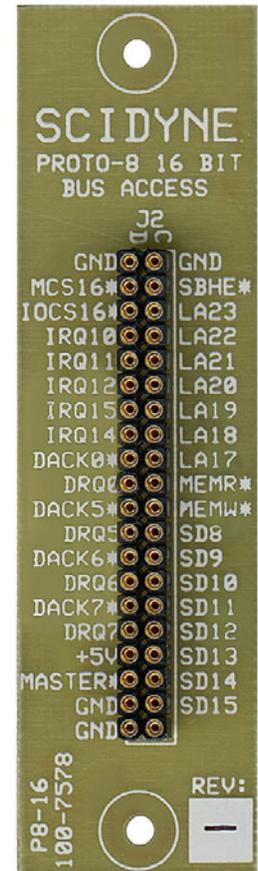
### PRODUCT DESCRIPTION

The P8-16 is a companion product for use with the PROTO-8 PC/104 prototyping breadboard. The adapter upgrades an 8 bit PROTO-8 to full 16 bit capability. This allows users to rapidly evaluate and develop more advanced PC/104 designs. The P8-16 simply plugs into the optional\* J2/P2 connector of the PROTO-8. All J2/P2 bus signals are routed directly to a socket strip which accepts 20-28AWG solid wire or component leads. Each signal is clearly identified, making breadboarding quick and straightforward. All the original functionality of the PROTO-8 is maintained while at the same time providing a clear path to higher performance 16 bit development. The P8-16 may be freely removed and re-installed as the user alternates between 8 and 16 bit projects.

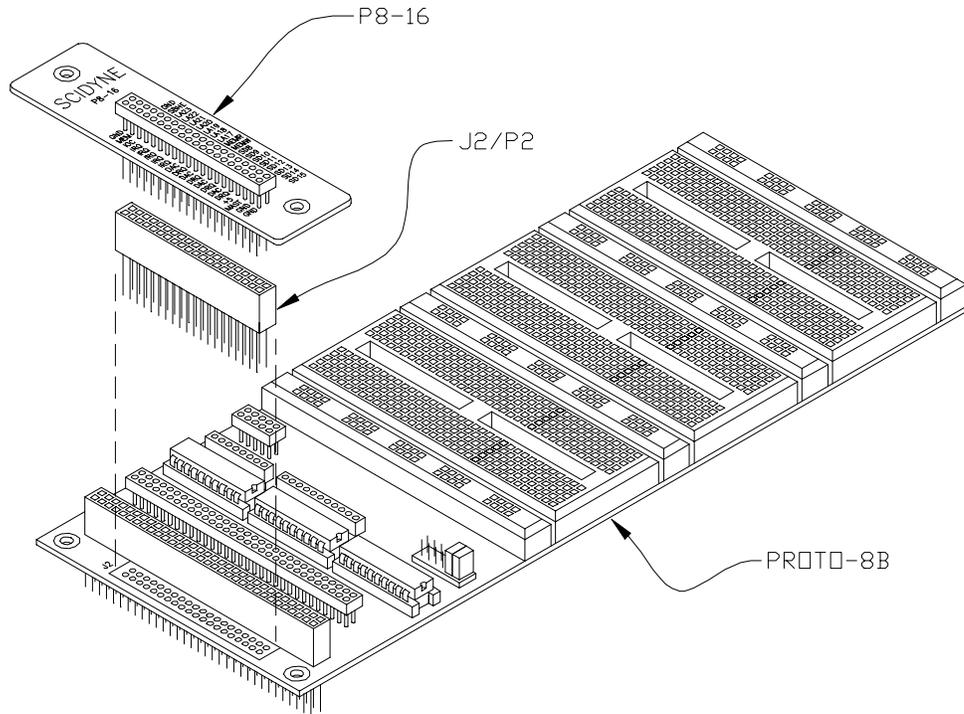
\* The J2/P2 connector is required and must be installed if not already present on the PROTO-8.

### BENEFITS

The PROTO-8 is ideal for constructing and testing 8 bit PC/104 hardware, but some applications are more demanding and best addressed through 16 bit designs. The P8-16 provides a simple and inexpensive means to enhance a standard PROTO-8 for use in 16 bit projects. All 16 bit J2/P2 signals are directly connected to a socket strip for easy access. This allows the P8-16 to operate at the full speed of the computer bus without the limitations and propagation delays associated with intermediate logic. Clearly labeled signal designations save breadboarding time and greatly reduce the chances of wiring errors.



## Simplified Block Diagram



## SPECIFICATIONS

- Connections:** Solderless connections are made through a 20 position socket strip. Accepts 20-28AWG solid wire and component leads. All J2/P2 signal designations are clearly printed on the circuit board.
- Power requirement:** None
- Dimensions:** 1.00"W x 3.55"L
- The maximum height of the P8-16 is 0.950" above the PROTO-8 PCB when fully inserted into the J2/P2 connector.
- Environmental:** Operating temperature: -40°C to 85°C  
Non-condensing relative humidity: 5% to 95%
- Ordering Information:** 100-7578, P8-16, PROTO-8 16 Bit Bus Access Adapter  
100-7549-B, PROTO-8 with solderless breadboard  
104-0002, Optional J2/P2 stack-through connector for 16 bit compatibility. Required if not already installed on PROTO-8

