

# ProtoBoard-3U-CONN - with connectors



Prototype circuit board with common connector footprints.

## Features

- *ProtoBoard-3U-CONN* speeds assembly by providing footprints for common connectors plus a switch.
  - DB-9
  - DB-25
  - SPDT switch
  - coaxial power connector
  - RJ45 Ethernet Jack (1) or BNC (2)
- *ProtoBoard* saves time! ProtoBoard has a general purpose stripboard circuit pattern that is pre-cut with 6 holes per strip.
- Standard single height (3U) Eurocard/VME size. Many off the shelf enclosures and card cages are available.

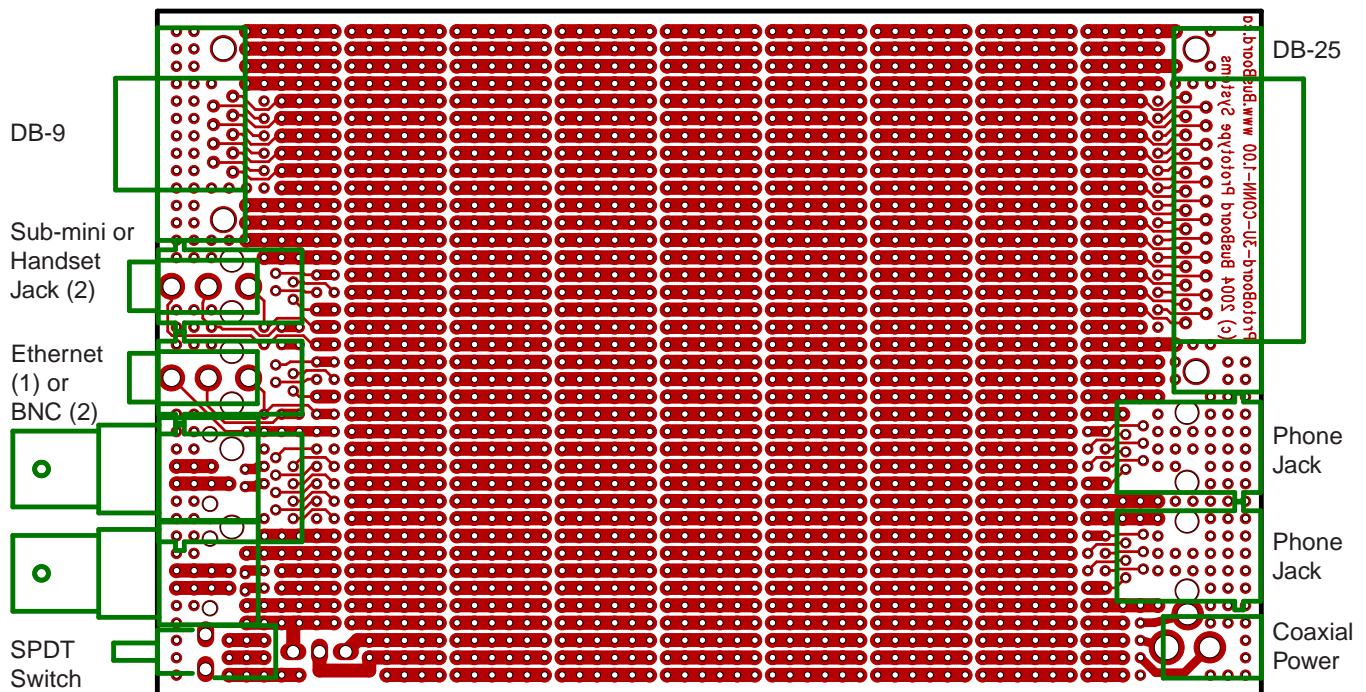
- Includes a RJ45 jack for 10baseT ethernet (8 position modular).

## Specifications

- Etched FR4 glass-epoxy circuit board.
- 1oz/ft<sup>2</sup> copper with an anti-tarnish coating for easy soldering. Lead free and RoHS compatible.
- Holes are drilled on 0.1" (2.54mm) centers.
- 0.037" (0.94mm) holes sized for ICs or square post headers.
- Size 3U = 3.9" wide, 6.3" long, 1/16" thick (100 x 160 x 1.6mm).

Order Part# PR3UC

## Board Layout With Connectors



## **Compatible Connectors**

The following list provides suggestions for parts which can be used with ProtoBoard-3U-CONN. It is not an exhaustive list. In most cases, parts from many different manufacturers may be used.

### **Telephone Connectors**

- Amp 520249-2      Modular Phone Handset Jack, Right Angle, 4 Positions, 4 Contacts.
- Amp 520257-2      Modular Phone Handset Jack, Vertical, 4 Positions, 4 Contacts.
- Amp 520250-3      Modular Phone Jack, Right Angle, 6 Positions, 6 Contacts.
- Amp 520258-3      Modular Phone Jack, Vertical, 6 Positions, 6 Contacts.

### **RJ45 10baseT Ethernet Connectors**

- Amp 520251-4      Modular Jack, Right Angle, 8 Positions, 8 Contacts.
- Amp 520259-4      Modular Jack, Vertical, 8 Positions, 8 Contacts.

### **Barrel Coaxial Power Connectors**

- Switchcraft RAPC722 Coaxial Barrel Power Connector, 2mm Center Pin.
- Switchcraft RAPC712 Coaxial Barrel Power Connector, 2.5mm Center Pin.

### **Sub-mini Connectors**

- Switchcraft 35RAPC2AV      1/8" Sub-Mini Jack, Right Angle, Mono.

### **BNC Connectors**

- Amp 227161-2      BNC Connector, Right Angle, Black Housing.
- Amp 227161-1      BNC Connector, Right Angle, White Housing.
- Molex 73137-5005      BNC Connector, Right Angle, Black Housing.
- Molex 73137-5015      BNC Connector, Right Angle, White Housing.

### **Right Angle DB Connectors**

- Amp 748879-1      DB-9 Male Connector, Right Angle, PCB mount, 0.318 Style, Boardlocks, 4-40 Threaded Inserts.
- Amp 748875-1      DB-9 Female Connector, Right Angle, PCB mount, 0.318 Style, Boardlocks, 4-40 Threaded Inserts.
- Amp 748881-1      DB-25 Male Connector, Right Angle, PCB mount, 0.318 Style, Boardlocks, 4-40 Threaded Inserts.
- Amp 748877-1      DB-25 Female Connector, Right Angle, PCB mount, 0.318 Style, Boardlocks, 4-40 Threaded Inserts.

### **Vertical DB Connectors**

- Amp 745051-2      DB-9 Male Connector, Vertical, PCB mount, 0.318 Style, 4-40 Threaded Inserts.
- Amp 207841-4      DB-9 Female Connector, Vert., PCB mount, 0.318 Style, 4-40 Threaded Inserts.
- Amp 745053-2      DB-25 Male Connector, Vertical, PCB mount, 0.318 Style, 4-40 Threaded Inserts.
- Amp 745058-4      DB-25 Female Connector, Vert, PCB mount, 0.318 Style, 4-40 Threaded Inserts.

### **SPDT Switches**

- E-Switch      100-SP-1-T1-B1-M7-Q-E      SPDT Switch, Right Angle, PCB Mount.
- NKK      M2012SS2W30      SPDT Switch, Right Angle, PCB Mount.

Note: The ProtoBoard-3U-CONN provides the same connector footprints as the BusBoard-3U-CONN, plus a RJ45 ethernet jack. It has the ProtoBoard 6-hole strips instead of the BusBoard pattern. The BusBoard-3U-CONN board does not have a RJ11 ethernet connector footprint.

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