

BusBoard-3U-CONN - with connectors



Prototype circuit board with common connector footprints.

Features

- **BusBoard-3U-CONN** speeds assembly by providing footprints for common connectors plus a switch.
 - DB-9 - modular phone jack (2)
 - DB-25 - 1/8" sub-mini (2) or
 - SPDT switch mod. handset jack (2)
 - coaxial power connector
 - BNC connector (2)
- The **BusBoard** zig-zag circuit pattern keeps opposite sides of an integrated circuit or connector on separate tracks to simplify wiring.
- Narrow and wide tracks identify connected pads. Indicator holes show wide tracks.
- DIP ICs and headers can be connected pin-to-pin without cutting traces or adding wires. It's ideal for memory buses and it provides easy power and grounds for other ICs.

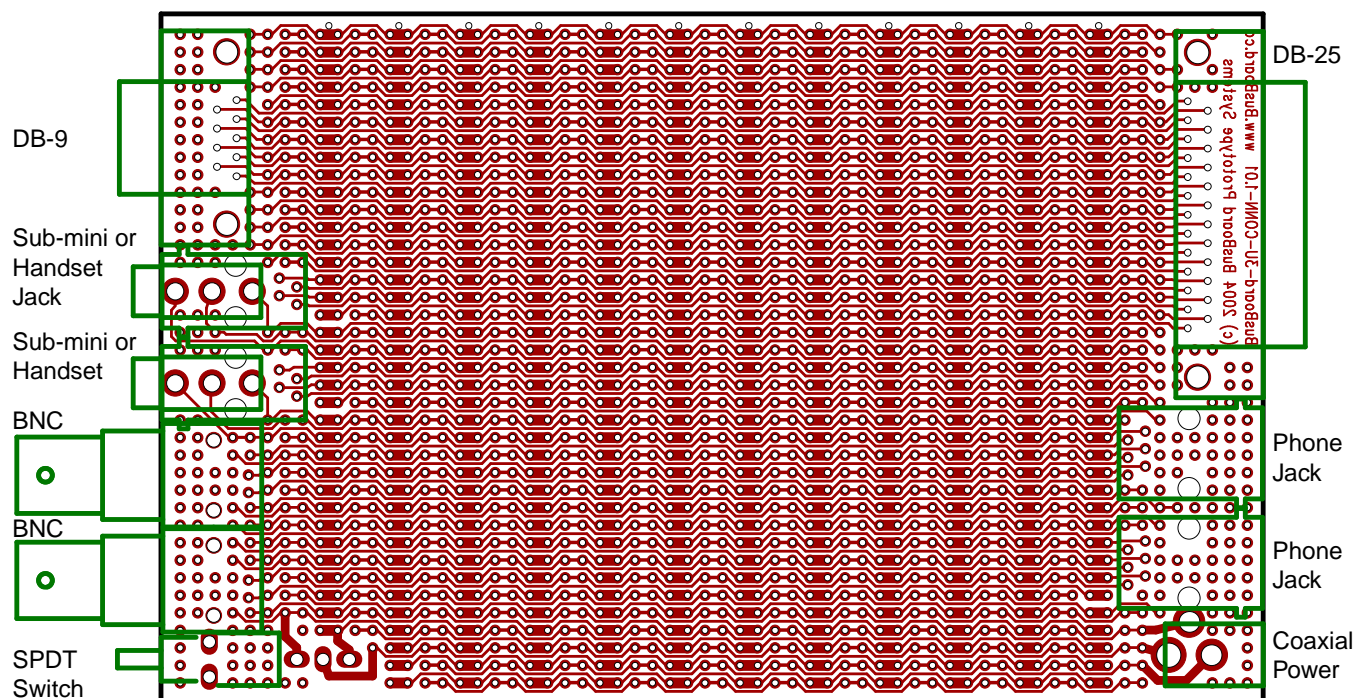
- Opposite pins of a dual header can be on the same bus or different busses.
- Soldermask simplifies soldering and prevents solder bridges on tracks.
- Standard single height (3U) Eurocard/VME size. Many off the shelf enclosures and card cages are available.

Specifications

- **Lead Free PCB** with an anti-tarnish coating for easy soldering. RoHS compatible.
- Etched FR4 glass-epoxy circuit board.
- Solder mask to prevent solder bridges.
- Single sided PCB, 1oz/ft² copper.
- Holes are drilled on 0.1" (2.54mm) centers.
- 0.037" (0.94mm) holes sized for ICs or square post headers.
- 76 separate BusBoard traces.
- 3.9" wide, 6.3" long, 1/16" thick (100 x 160 x 1.6mm).

Order Part# BB3UC

Board Layout With Connectors



BusBoard Prototype Systems - Built for designers

www.BusBoard.com sales@busboard.com

BPS-MAR-BB3UC-001 Rev 4.00

Compatible Connectors

The following list provides suggestions for parts which can be used with BusBoard-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.

Barrel Coaxial Power Connectors

Switchcraft RAPC722Coaxial Barrel Power Connector, 2mm Center Pin.

Switchcraft RAPC712Coaxial Barrel Power Connector, 2.5mm Center Pin.

Sub-mini Connectors

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

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, Vertical, 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 board (plus a RJ45 ethernet jack) with a 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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