

SMTboard-3U - surface mount prototype PCB



Prototyping circuit board for 0805, 1206, SOIC, SOT and other SMT parts.

Features

- SMT rectangle pads are spaced for 0805 and 1206 components.
 - **SMTboard** has three SOIC-32 footprints each routed to 32 pads.
 - Solid ground plane on back side for low noise in RF and high speed logic circuits.
 - Every second SMT rectangle pad has an unplated hole for easy connection to the ground plane on the back side. Just insert a wire and solder. A plated hole option is available.
 - Two power rails. Four mounting holes.
- Standard single height (3U) Eurocard/VME size.
 - Twelve SOT23 footprints. SOT223 and additional SOT23 parts can fit on the SMT rectangle pads.
 - SMT rectangle pads have 0.1" spacing to allow DIP ICs and headers to be attached.
 - Through hole prototyping area for headers, power connections, and DIP ICs.
 - The **BusBoard** zig-zag circuit pattern on the through hole area allows easy access to both sides of headers and DIP ICs.

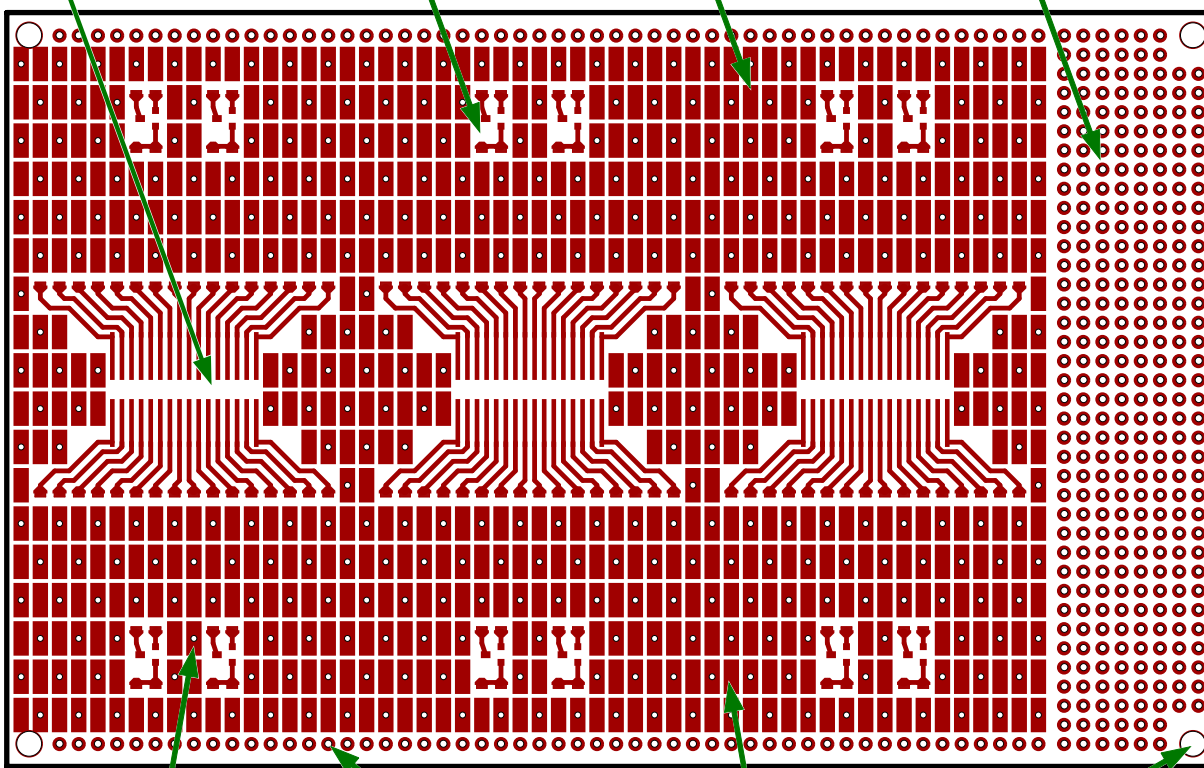
Board Layout (component side)

SOIC-32 footprints
routed to 32 pads.

SOT-23 footprints
routed to four pads.

SMT pads are spaced
for 0805 and 1206 SMT
components.

Through-hole area for
DIP ICs and headers.



Every second SMT pad has
an unplated hole for easy
connection to the ground plane.
Just insert a wire and solder.

Two power rails.

SMT pads have 0.1" spacing.
DIP ICs can be soldered to pads.

Four mounting
holes.

BusBoard Prototype Systems - Built for designers

www.BusBoard.com sales@busboard.com

BPS-MAR-(SMT3U)-001 Rev 4.00

SMTboard-3U Data Sheet, Continued

Specifications

- Etched FR4 glass-epoxy circuit board.
- 1oz/ft² copper, with an anti-tarnish coating for easy soldering. Lead free.
- SMTboard-3U 3.9" wide, 6.3" long, 1/16" thick (100 x 160 x 1.6mm).
- SMTboard-3U-PTH 3.9" wide, 6.3" long, 1/16" thick (100 x 160 x 1.6mm), plated holes.
- SMTboard-3U-THIN 3.9" wide, 6.3" long, 1/32" thick (100 x 160 x 0.8mm).
- Holes are drilled on 0.1" (2.54mm) centers in through hole area. All holes are unplated.
- 0.037" (0.94mm) holes for ICs or square post headers in through hole area.
- 0.031" (0.79mm) holes for connections to ground plane in SMT area.

Order Part# SMT3U (1/16" thick, unplated holes)
or SMT3UT (thin version, 1/32" thick, unplated holes)
or SMT3-PTH (plated holes version, 1/16" thick)

Board Layout (ground plane side)

Solid ground plane for
high-speed logic and RF circuits.

Zig-zag pattern allows easy access
to both sides of DIP ICs and headers.

