

Top assembly

Component placement, fitted-side orientation and 3D reference

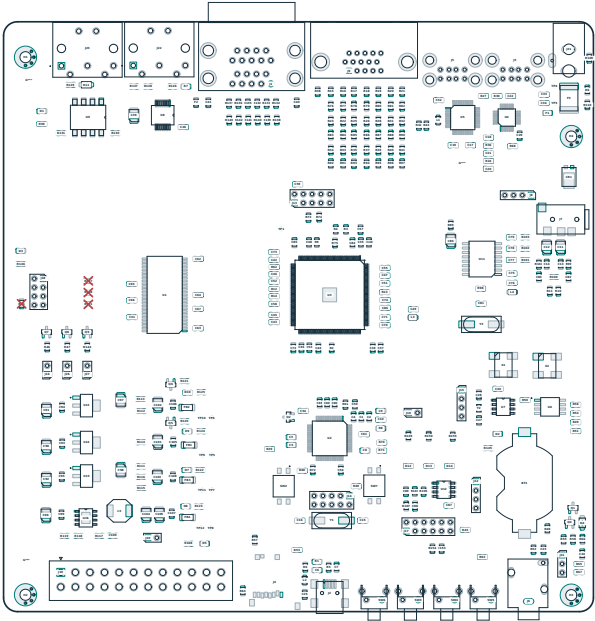
ASSEMBLY NOTES

01 View from outside the top of the board. Use connector edges to orient the board.

02 Teal identifies pad 1 / A1. Red crosses mark DNP footprints. Confirm polarity from the footprint and datasheet.

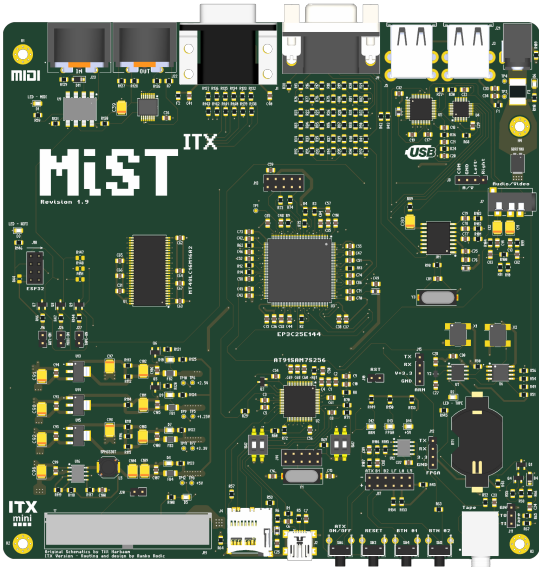
03 The component table controls values and population. The 3D view is illustrative; use the scale below for the plan.

REFERENCE PLAN



25 mm scale check / plan 0.46:1

3D ASSEMBLY VIEW



170.00 × 170.00 mm outline

ASSEMBLY INVENTORY

Placement	Footprints	SMD	DNP
Top side	369	325	4
Bottom side	2	0	0

Saved pads and fabrication outlines form the reference plan. Component values, connector pin maps and source notes are in [documentation/index.html](#).

Bottom assembly

Component placement, fitted-side orientation and 3D reference

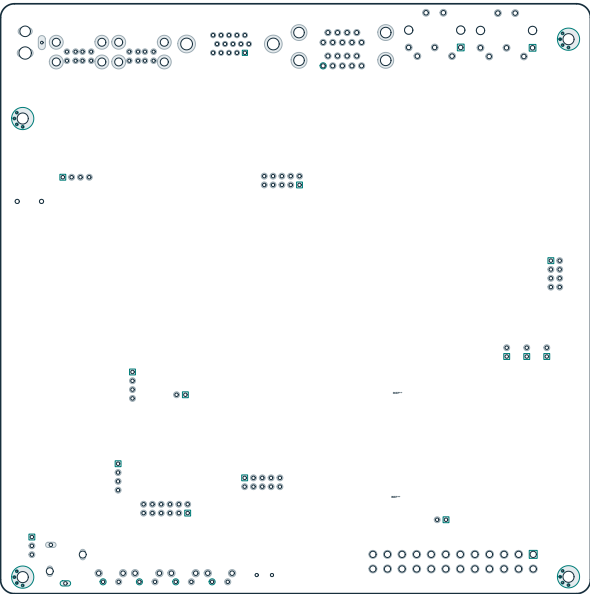
ASSEMBLY NOTES

01 View from outside the bottom of the board.
Bottom plan is mirrored.

02 Teal identifies pad 1 / A1. Red crosses mark
DNP footprints. Confirm polarity from the
footprint and datasheet.

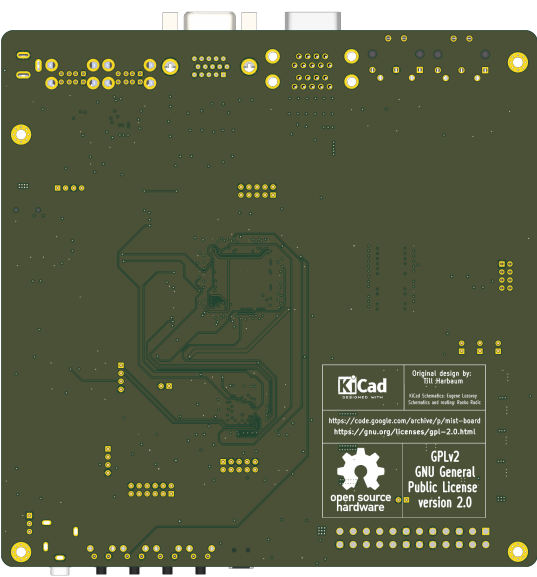
03 The component table controls values and
population. The 3D view is illustrative; use the
scale below for the plan.

REFERENCE PLAN



25 mm scale check / plan 0.46:1

3D ASSEMBLY VIEW



170.00 × 170.00 mm outline

ASSEMBLY INVENTORY

Placement	Footprints	SMD	DNP
Top side	369	325	4
Bottom side	2	0	0

Saved pads and fabrication outlines form the reference plan. Component values, connector pin maps and source notes are in [documentation/index.html](#).

Ranko Rodic / Minimig.ca | Precision-Arrays

V1R9 • generated 2026-10-16 • source a0bd5dacd4aa

Units: mm. Source CAD governs. Regenerate after design changes.

MIST ITX / Bottom assembly

A4 · 2026-10-16 · Drawing 2/5

Layer stackup and fabrication

Source project settings. Dimensions and fabrication parameters come from the saved PCB.

Layer	Type	Material	mm
F.SilkS	Top Silk Screen	—	—
F.Paste	Top Solder Paste	—	—
F.Mask	Top Solder Mask	—	0.01
F.Cu	copper	—	0.035
dielectric 1	core	FR4	0.1
In1.Cu	copper	—	0.035
dielectric 2	core	FR4	0.535
In2.Cu	copper	—	0.035
dielectric 3	prepreg	FR4	0.1
In3.Cu	copper	—	0.035
dielectric 4	core	FR4	0.535
In4.Cu	copper	—	0.035
dielectric 5	prepreg	FR4	0.1
B.Cu	copper	—	0.035
B.Mask	Bottom Solder Mask	—	0.01
B.Paste	Bottom Solder Paste	—	—
B.SilkS	Bottom Silk Screen	—	—

These drawings record the source design. Confirm material, layer stack and fabrication capabilities against the native project before manufacture.

Ranko Rodic / Minimig.ca | Precision-Arrays

V1R9 • generated 2026-10-16 • source a0bd5dacd4aa

Units: mm. Source CAD governs. Regenerate after design changes.

Saved board parameters

Property	Saved value
Outline	170.00 × 170.00 mm
Board thickness	1.6 mm
Copper layers	6
Footprints	371
Track/arc items	3961
Vias	608

Saved routing rules / mm

Class	Clearance	Track	Via/drill
Default	0.2	0.2	0.6/0.3

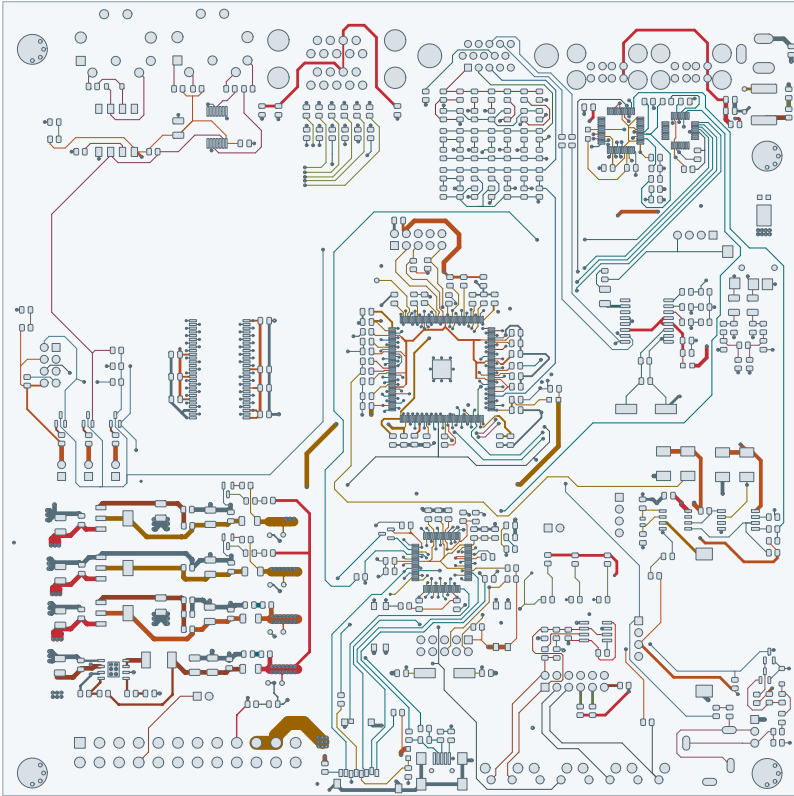
MiST ITX / Layer stackup and fabrication

A4 · 2026-10-16 · Drawing 3/5

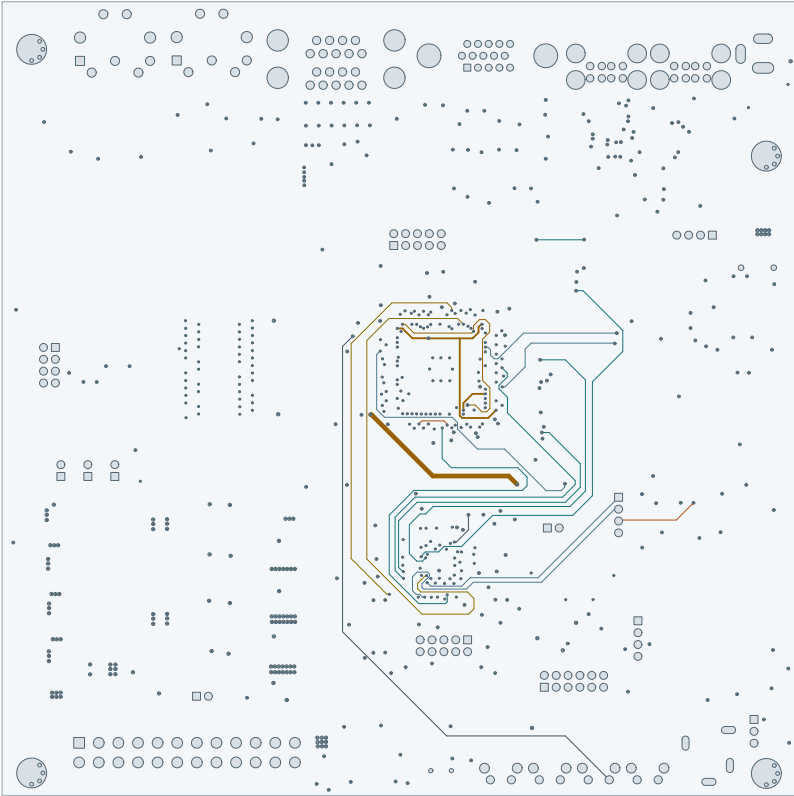
Routing guide

Outer copper from saved tracks, pads and vias. Filled zones are omitted for clarity.

Front copper



Back copper / through-board view



Colours identify net function. Grey pads and vias retain the saved geometry. Use native PCB layers for inner copper, zone fills and fabrication output.

Ranko Rodic / Minimig.ca | Precision-Arrays

V1R9 • generated 2026-10-16 • source a0bd5dacd4aa

Units: mm. Source CAD governs. Regenerate after design changes.

MiST ITX / Routing guide

A4 • 2026-10-16 • Drawing 4/5

Power and signal identification

Shared functional colour families for schematic labels and PCB copper.

	GROUND	2		USB	26
	POWER 5V	5		SPI	13
	POWER 3V3	5		CONFIG	8
	POWER OTHER	12		JTAG	8
	POWER CONTROL	23		UART	6
	CLOCK	9		MIDI	13
	SDRAM	38		JOYSTICK 1	12
	VIDEO RED	8		JOYSTICK 2	12
	VIDEO GREEN	8		AUDIO	15
	VIDEO BLUE	8		INDICATORS	16
	VIDEO SYNC	4		RTC	4
	VIDEO COMPOSITE	9		CONTROL	5

Follow each signal through the hierarchy by its global net label. Bus aliases summarize cross-sheet signal groups; the HTML guide lists every alias and colour assignment.

PCB Editor: Appearance → Objects → Net colours → All. Colour-only VIS_ classes preserve the original track, via and clearance rules.

Ranko Rodic / Minimig.ca | Precision-Arrays

V1R9 • generated 2026-10-16 • source a0bd5dacd4aa

Units: mm. Source CAD governs. Regenerate after design changes.

MiST ITX / Power and signal identification

A4 · 2026-10-16 · Drawing 5/5