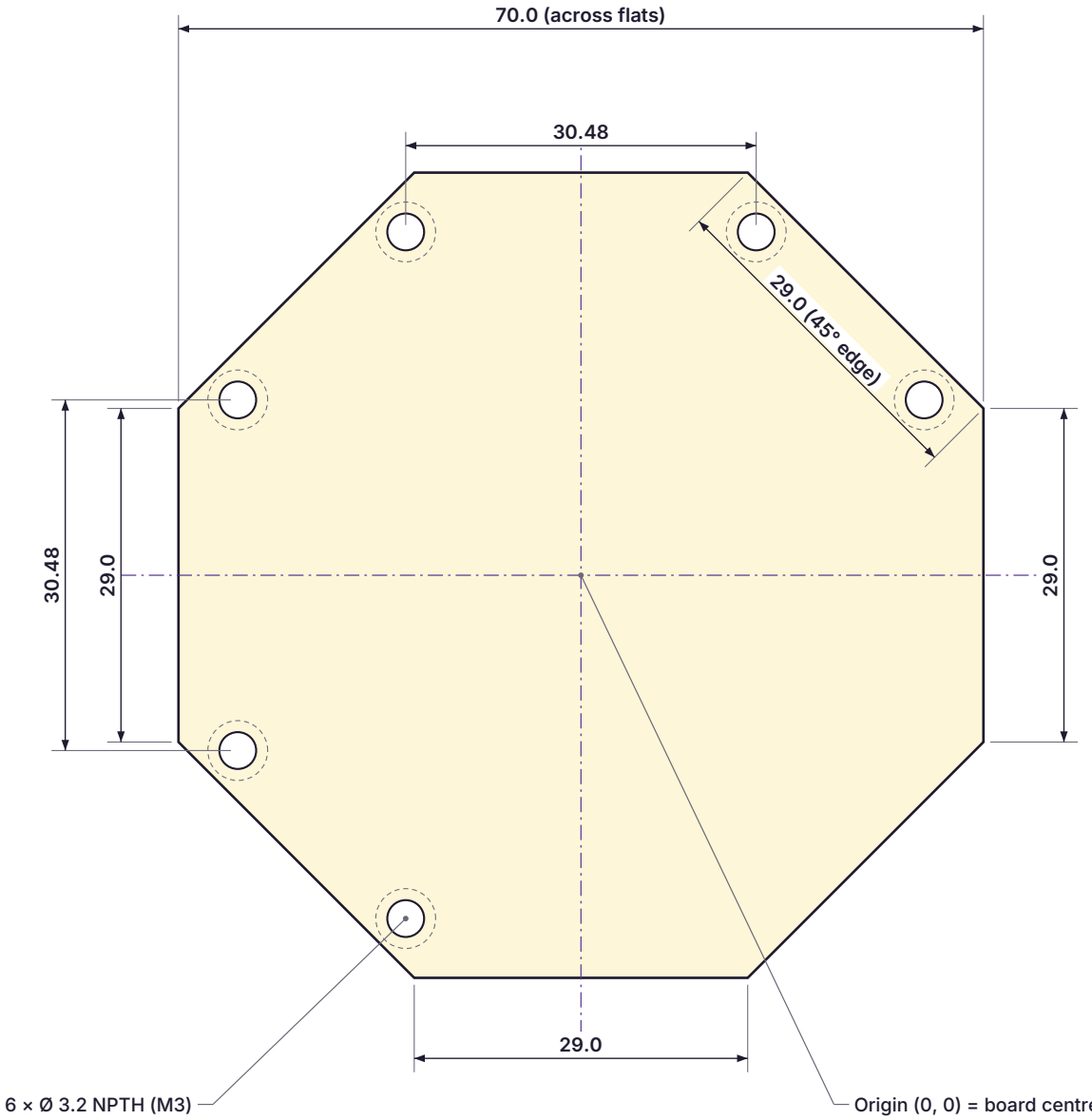
IronBCI-128 Mechanical & Dimensional Drawing

PRELIMINARY · IN DEVELOPMENT

VIEW A — TOP VIEW, BOARD OUTLINE & MOUNTING HOLES (scale 1.6:1, dimensions in mm)



01 MOUNTING HOLES

Hole	X (mm)	Y (mm)	Drill
H1	-29.845	+15.240	Ø 3.20
H2	-29.845	-15.240	Ø 3.20
H3	-15.240	+29.845	Ø 3.20
H4	-15.240	-29.845	Ø 3.20
H5	+15.240	+29.845	Ø 3.20
H6	+29.845	+15.240	Ø 3.20

02 OUTLINE

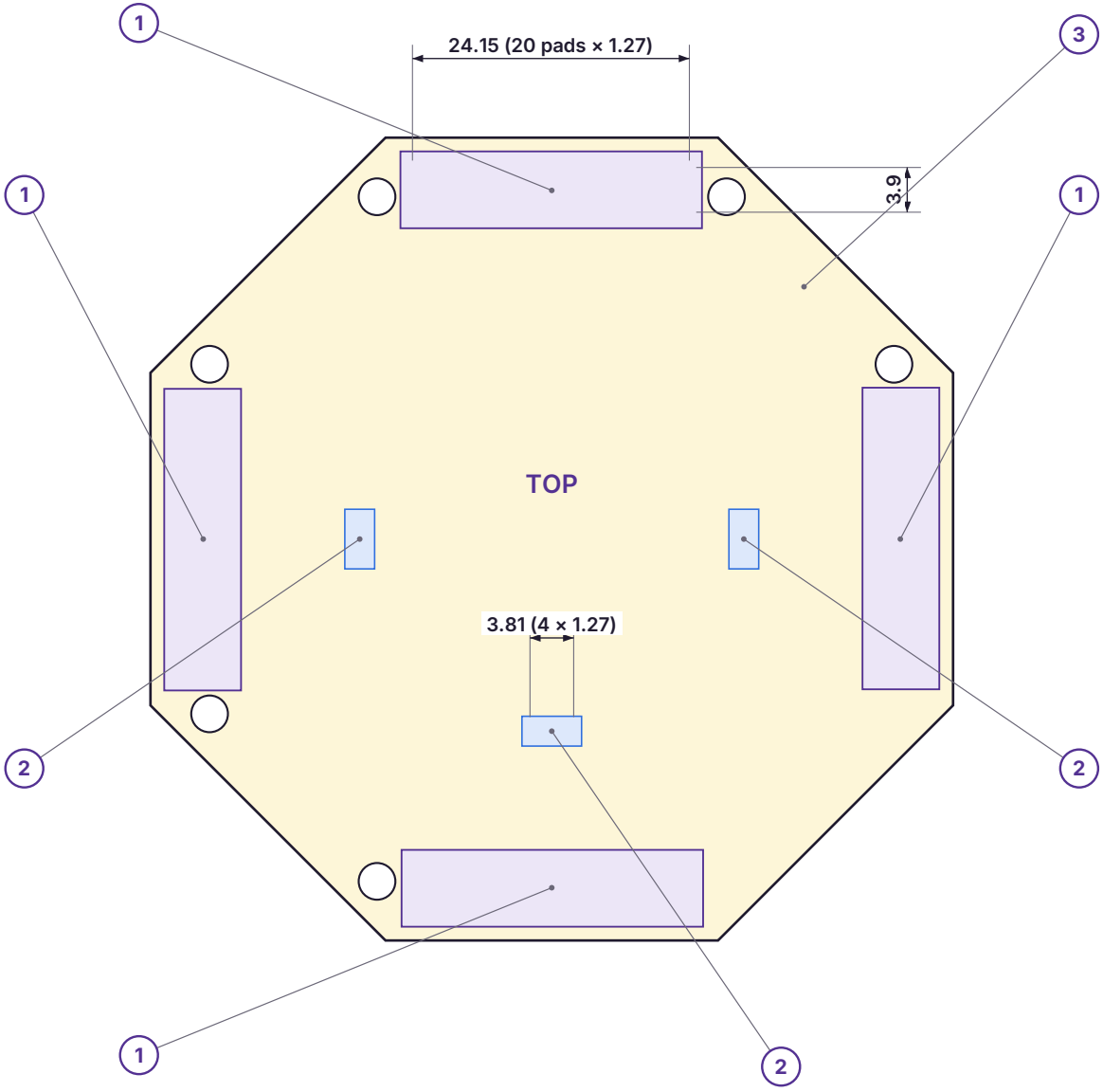
Shape	Regular octagon, eight edges of 29.0 mm
Across flats	70.0 mm (70.075 mm incl. 0.075 mm profile line)
Thickness	1.6 mm PCB (excl. components)
Positions	H1–H6 lie on a 30.48 mm grid offset 29.845 mm from centre; the two lower-right positions are not drilled

PRELIMINARY

Taken from the pre-production Gerber files. Component heights and the final connector part numbers are not fixed yet; allow clearance in any enclosure design.

In development. Preliminary data; specifications may change. Not a medical device.

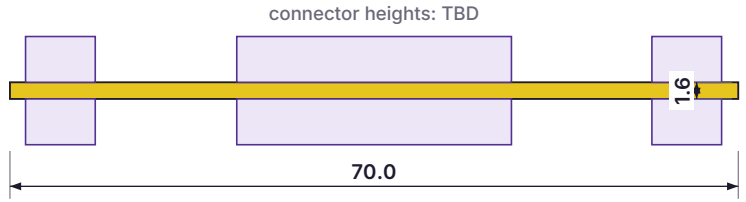
VIEW B — CONNECTOR POSITIONS (top side; the bottom side mirrors the four edge connectors)



03 CONNECTORS

#	Item	Qty	Notes
1	Board-to-board, 2 × 20	4 + 4	1.27 mm pitch SMD, top & bottom
2	Header 2 × 4 (J301–J303)	3	1.27 mm pitch, through-hole
3	USB-C	1	Upper-right chamfer edge

VIEW C — SIDE VIEW (schematic)



ENCLOSURE DESIGNERS

Use the mounting holes and outline above. Mating connector type, stack height and USB-C overhang will be confirmed with the final release.

In development. Preliminary data; specifications may change. Not a medical device.