

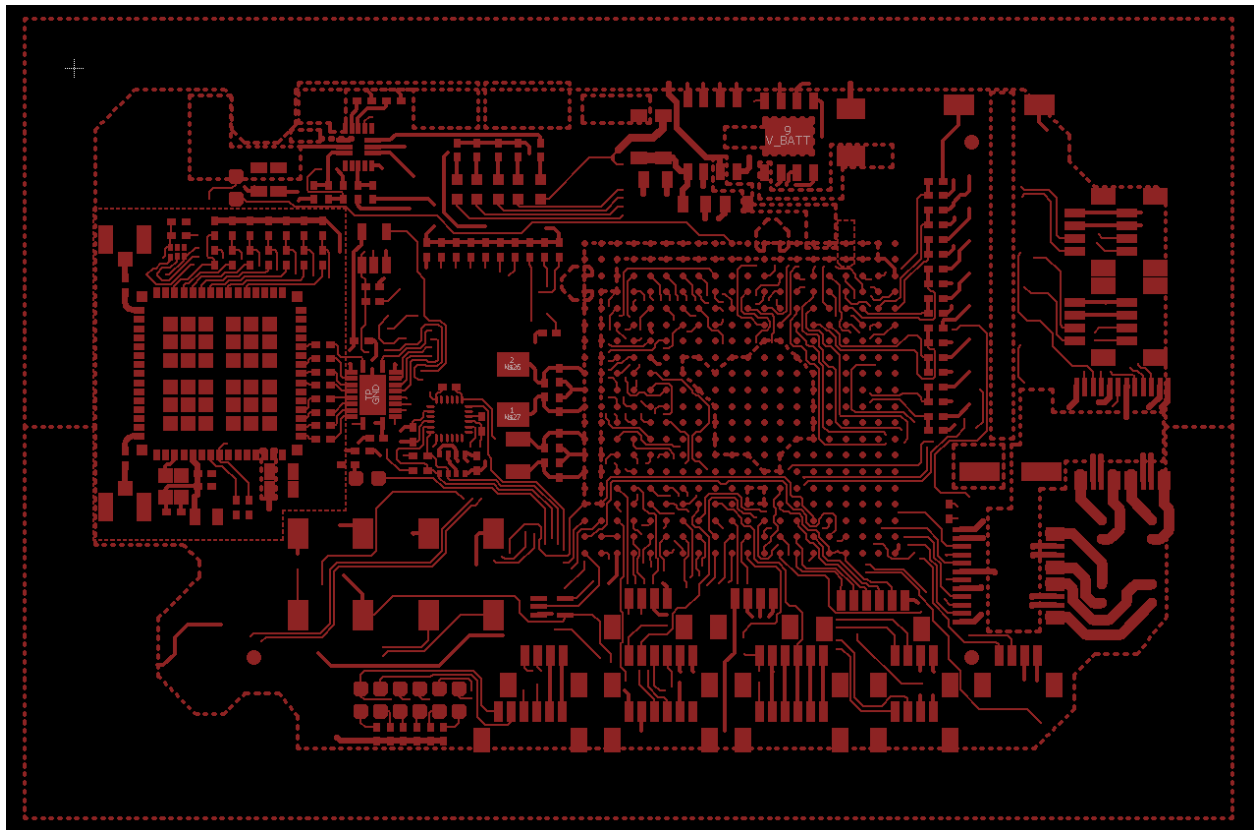
Layers in Eagle

In this article, let's try to understand the meaning of the different layers we see in eagle. If you're a beginner, then it's especially important for you to understand the meaning of different layers in eagle or for that matter any PCB design software.

Layers are a critical component of any PCB design, allowing us to organize a ton of information without cluttering the view. And when we're ready to generate documentation to share with our manufacturer, the Gerber file will be pulling data directly from many of these layers to communicate the design intents clearly. The problem is, there are 38 layers to know about (52 if you have EAGLE Premium), and remembering what they're all used for can be a challenge, use this document as and when required to know about them. And if you have to take my advice, then please do not try to remember any of it, designers are not to remember things that are readily available at disposal 😊.

Below you'll find a complete list of every layer in Autodesk EAGLE, and what you need to know about them.

Layer 1: Top

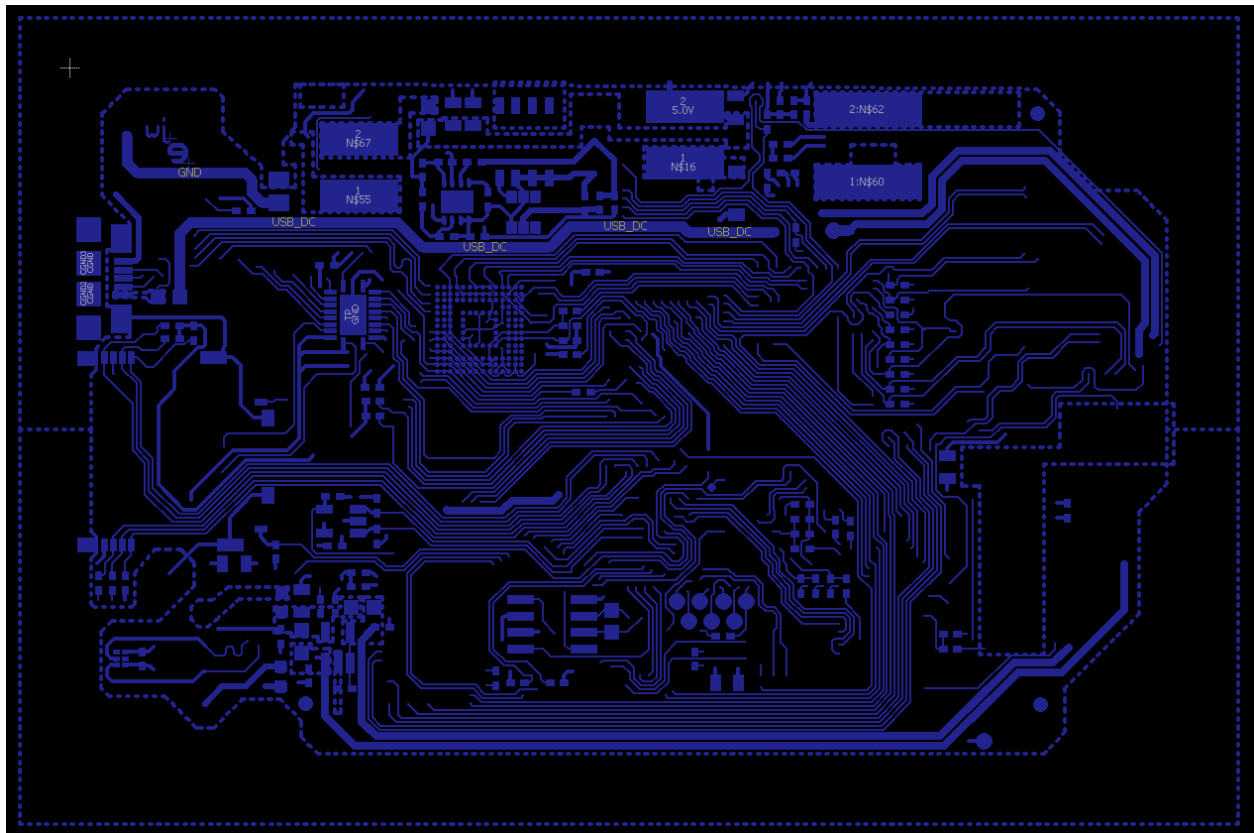


This is the top Copper layer. This layer contains the copper on the top of the PCB, including the tracks, and copper pour we've added using polygon or individual copper traces. Using this layer to generate a pour will provide an accessible area of copper for all of your signals to ground. Also, when creating pads for surface mount components, EAGLE will default to using Layer 1 for the pad's placement.

Layer 2-15: Route

These layers 2-15 are reserved for those with a Premium EAGLE Subscription and offer a ton of inner layers to route on for multilayer PCBs. To use these layers for Premium Subscribers, you'll need to modify your layer stackup via **Tools » DRC » Layers tab**.

Layer 16: Bottom



This is the bottom track layer. Its usually blue in color in most of the PCB design software. In single Sided PCB, this is the only layer being used

For detailed explanation of the rest of the eagle Layers, Visit below blog of Autodesk

<https://www.autodesk.com/products/eagle/blog/every-layer-explained-autodesk-eagle/>