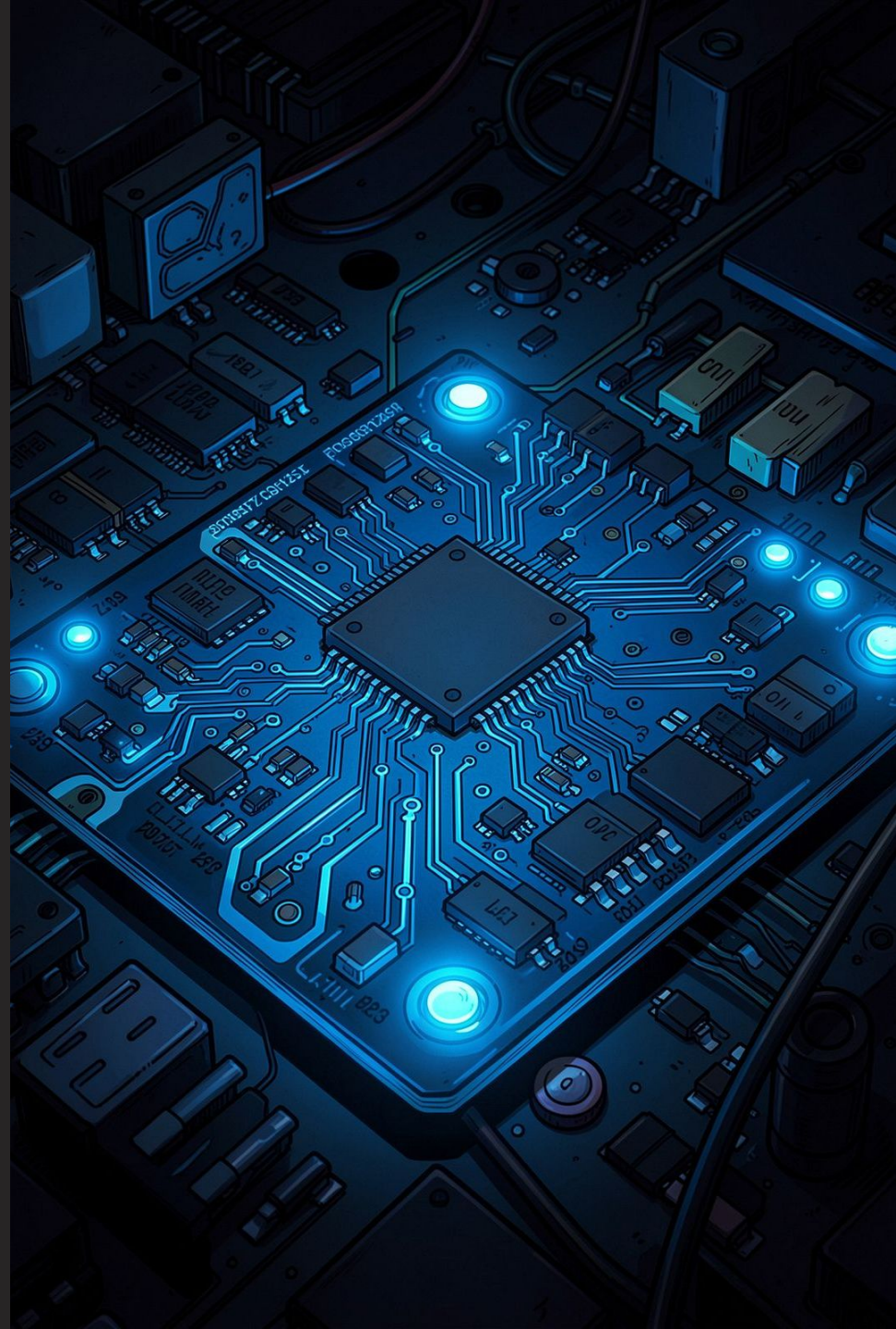
AI-Powered Schematic Review & PCB Artwork Assistance Service

No PCB specialist on your team? Our AI and engineering expertise work together to accelerate your development cycle and reduce risk.

SCHEMATIC REVIEW | PCB ARTWORK | AI REVIEW REPORT | ELECTRONICS DEVELOPMENT



Who Needs This Service

🏭 Small Electronics Manufacturers

Companies seeking rapid product launch but lacking dedicated PCB engineering resources

📡 IoT Device Development Startups

Teams requiring validation of communication interfaces and power supply design

🔬 Hardware Prototype Developers

Firms looking to eliminate circuit errors before committing to prototype production

💡 Individual Inventors / Government Project Contractors

Those in need of professional PCB artwork outsourcing and official review reports

Service 01 — Schematic Review

A team of expert engineers systematically reviews the schematics provided by the client. By identifying errors prior to production, we help reduce redesign costs and save valuable time.

- **Power supply configuration errors and MCU pin map conflict detection**
- **Communication interface wiring error verification (RS-485, Ethernet, USB, CAN)**
- **Protection circuit, pull-up/pull-down resistor, and decoupling capacitor omission check**
- **Component availability and PCB placement risk analysis**

Circuit Review — Pricing Guide

Basic Review

₩300,000 ~ ₩500,000

Fundamental circuit error and pin map conflict inspection

Detailed Review Report

₩800,000 ~ ₩1,500,000

Comprehensive analysis report covering power, signal, communication, and component availability

Review with Revision

₩1,500,000 ~ ₩3,000,000

Includes error correction after review and full redesign of the optimized schematic

ⓘ For first-time clients, we recommend starting with a Basic Review. Custom quotes are available depending on the scale of your project.

Service 02 — PCB Artwork Assistance / Full Service

KiCad-based, one-stop support from schematic to Gerber file output and order preparation. Compatible with both 2-layer and 4-layer PCBs, including file packaging for JLCPCB and PCBWay orders.

Placement Strategy

Optimal component placement design by zone: power, communication, MCU, and connectors

PCB Artwork Production

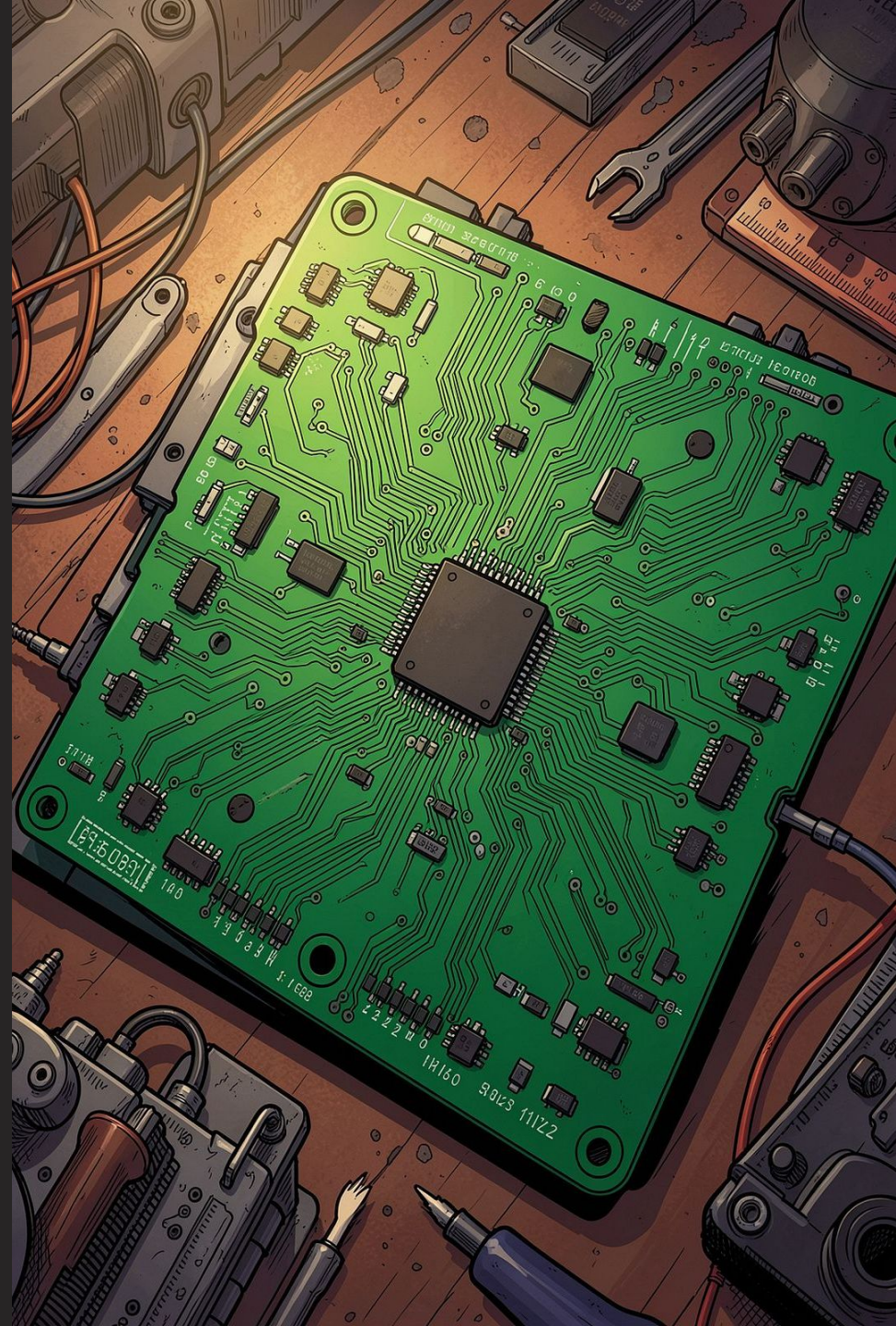
2-layer / 4-layer PCB layout and routing work

DRC / ERC Review

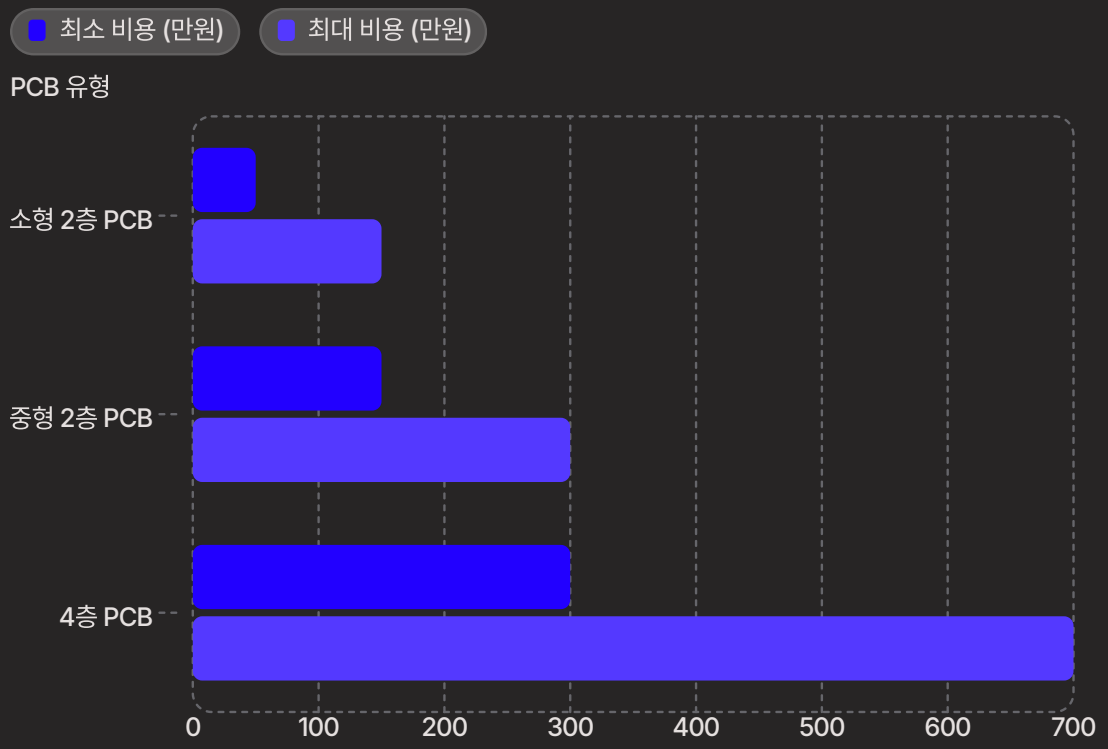
Design rule and electrical rule checks with automated and manual cross-verification

Order File Packaging

Gerber output, BOM compilation, and complete package preparation for overseas orders



PCB Artwork — Pricing Guide



Pricing Reference Guide

- **Small 2-Layer PCB** — ₩500K ~ ₩1.5M
- **Medium 2-Layer PCB** — ₩1.5M ~ ₩3M
- **4-Layer PCB** — ₩3M ~ ₩7M
- **Industrial Board** — Custom Quote

Costs vary depending on board size, layer count, component density, and delivery schedule. Contact us for a free initial consultation to receive an accurate estimate.

Projects using tools other than KiCad can also be accommodated upon request.

Service 03 — AI Design Review Report

Submit your schematic or PCB file and receive an official report combining **AI analysis + engineer review** quickly. You can enhance design completeness without revisions, making it suitable for government project submissions and investor IR materials.

📋 Design Overview & Key Component Configuration Analysis

⚡ Power Supply · Signal Line · Communication Section Review

⚠️ PCB Layout Risk Factors & Manufacturing/Assembly Risks

✅ Recommended Revisions & Alternative Component Suggestions

Basic Report

~~₩300,000~~

Detailed Report

~~₩700,000~~

With Revisions

~~₩1,500,000+~~

Service 04 — Electronics Development Service

From idea to finished product, we provide end-to-end support for the entire electronics development process. From compact IoT devices to industrial equipment, we deliver customized development services tailored to your requirements.

1

Requirements Analysis

Feature definition and specification finalization

2

Circuit Design

Schematic creation and review

3

PCB Artwork

Layout and manufacturing file output

4

Prototype Development

Assembly, testing, and inspection

📩 Contact us now — confirm your project's feasibility with a free preliminary consultation. Feel free to reach out in any format: schematics, PCB files, requirements documents, or simply your idea.