

How much does a Polish micro-module cost



AI Overview

A Polish micro-module typically costs between \$20 and \$400 per unit, depending on complexity, application, and production volume.

Price Range and Factors

The cost of a micro-module in Poland varies widely based on its type and intended use. For example, 5G PCBs, which are similar high-frequency micro-modules, range from \$20 for basic IoT boards to over \$400 for advanced base station modules . Key factors influencing the price include:

- Complexity and design:** Modules with multilayer stack-ups, tight impedance control, or high-frequency performance are more expensive.
- Materials:** Low-loss dielectric materials and specialized substrates increase costs.
- Production volume:** Small batch orders are more expensive per unit due to setup and prototyping costs.
- Testing and quality assurance:** Advanced RF testing or impedance tuning can add \$20–\$50 per unit .
- Regional manufacturing:** Modules produced in Europe, including Poland, may cost more than those from China due to labor and material costs, but they often offer faster delivery and compliance with EU standards .
- Semiconductor Manufacturing Considerations**

If the micro-module is a custom ASIC or integrated semiconductor device, additional costs include:

- Non-recurring engineering (NRE):** Upfront design and mask costs, which can be substantial for advanced nodes.
- Wafer fabrication and packaging:** Costs depend on wafer size, process node, and yield.
- Testing and assembly:** Complex modules require more extensive testing, increasing unit cost .

Practical Estimate

For a small, standard micro-module produced in Poland, you can expect a unit cost around \$50–\$150 for low- to mid-complexity designs. High-performance modules for 5G or specialized industrial applications may reach \$300–\$400 per unit. Bulk production can reduce the per-unit cost significantly, especially if NRE costs are amortized over large volumes.

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Wafer Fabrication & Assembly Pricing

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HBM Pricing & Market Share (2026) — SK Hynix, Samsung, Micron

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The cost of generating energy from photovoltaic cells in 2010 was approximately USD 0.378 per kWh, while at the end of 2023 the price was already approximately 0.044 USD per kWh

Contact Us

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