

anabrid GmbH: The global leader in analog computing

Anabrid is the global word market leader in future pointing analog computing. This kind of novel computers are 10,000 times faster then the best digital computer and at the same time 1,000 more energy saving. Analog is a mature technology and still today 70% of smartphone chips are analog. Anabrids USP is to empower analog-digital hybrid computing to be a game changer in AI, IoT and Industry applications. Anabrid sold more then 1000 computers in 2022 and now develops a CMOS co-processor, bringing supercomputing to the masses.

Problem & Solution: Why analog computing?

Need for Power	It is a mature technology	Analog is optimal
Many important commercial and scientific problems cannot be solved efficiently using conventional digital computers. Yet, they require enormous amounts of energy and will double global CO2 emission already in 2030.	Quantum computing bets on successful research on time and budget. In contrast, the analog industry is well established. We need a bridge between analog and digital processors in order to save our planet right now and not in 10 years from now.	Analog computing is energy efficient, fast and secure. It is provably the optimal approach for many hard problems such as General AI and derived problems in automotive and aviation, mobile and IoT appliances, personalized medicine, etc.

Market Size

Anabrid is at the intersection of the global AI market (\$300bn/year, 33% CAGR), global Quantum Computing market (\$600bn/year, 25% CAGR) and global Analog IC market (\$57bn/year, 10% CAGR). Our software defined electronics will disrupt all these markets.

Competition

Analog AI is a growing field where both big companies suchas IBM and Microsoft do R&D as well as startups such as MythicAI or Semron. However, Anabrid is the only company that can do nonlinear analog computations, opening a much broader field then only AI: We can do general-purpose analog computing, allowing to do things such as real-time traffic routing, real time wind tunnel simulations, smooth robotics, hard constraint satisfaction problems, embedded control systems and much more without needing AI.

Products

Anabrid has already products on the markets which serve as technology demonstrators and yet sell in large units world wide. This are both professional-grade systems such as the "Analog Paradigm Model-1" lab rack computer as well as smaller one such as the educational open hardware computer "The Analog Thing". In 2023 we release the first purely software programmable successor computers and will release the first chips in 2024.

Buisness model

The long term vision is licensing, in particular IP CMOS licensing following the ARM buisness model. In the mean time, we sell hardware and software, providing the full vertical integration up to solving client's problems on a consulting basis.