

Market Report: PSiP & PwrSoC – Power Density Goes Mainstream 2017 – 2025



**An Anagenesis Market Analysis
With Product and Technology Benchmarking by LTEC**



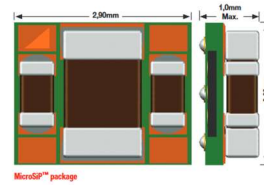
A 2020 market report covering miniature (max. 1” or 25.4 mm) power supplies – their opportunity and progress

Power Supply in a Package (PSiP)

- Growing number of players despite M&A
- Highest level development community support ever
- Outgrown traditional POL market; new ones are surprising
- Improved technology pushes lout and current density envelopes
- Reasonable and stable pricing and margins
- Double-digit growth outpaces most other power management offerings
- GaN adoption is waiting in the wings – Needs key catalysts & accelerators
- Progress exhibited by more diversified integration
- New products are less scattered and more applications driven



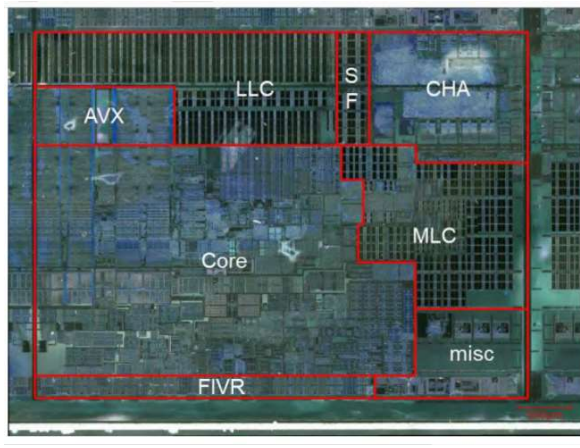
Encapsulated PSiP
Murata 12 A MonoBlock POL
10.5 x 9.0 x 5.6 mm



Miniature open-constructed PSiP
Texas Instruments 6 MHz 600 mA POL MicroSiP™
2.3 mm X 2.9 mm X 1 mm

Modular PwrSoC – Learn about Progress

Commercial Granular PwrSoC



**Intel Granular Xeon Processor
with Fully Integrated Voltage Regulator (FIVR)**

Power Supply on a Chip (PwrSoC)

- PwrSoC investment and start-ups outpace PSiPs
- More PSiP players are adding resources for better PwrSoC development positioning
- Granular efficiency improvements compel modular versions to seek the same applications
- New global heterogeneous integration community to accelerate PwrSoC
- Intense drive to create cost-competitive integrated power passives
- Key advancement - merchant integrated magnetics now commercially available
- New integration opportunities causing fabs to re-invent themselves
- Most significant barrier is business model despite technical challenges

Content

Chapter I – Introduction

Chapter II – Executive Summary

Chapter III – Purpose, Scope, and Methodology

Chapter IV – Recent Key Developments and Milestones (PSiP & PwrSoC)

Chapter V – PSiP Market Analysis and Trends

Applications & Drivers

Product Comparisons and Trends (over 11 years)

By Product Types & Package Types including impact on open-construction power supplies

Figures of Merit – Density, Efficiency, Pricing

Technical Benchmarks – Switching Frequency
By Voltage Classes

Technical Benchmarks by Current Classes

Future Enabling Technologies

Control Method, Power Switches, Power Magnetics,
Power Capacitors, & Packaging

Chapter VI – PwrSoC Market Analysis & Trends

Evolution Toward the PwrSoC

Parametric Progress

Emerging PwrSoC Applications

Future Enabling Technologies

Control Method, Semiconductor Switches, Integrated
Magnetics, Integrated Capacitors, and Packaging

Modular & Granular PwrSoCs, L and C based

Company Profiles

Chapter VII – PSiP Competitive Market Analysis

Market Revenue Share by Company

Product Introduction Activity (2009 – 2018)

Product Landscape

Technology Readiness Assessment

Company Profiles: Strengths and Weaknesses

Suppliers, Users, and Component Providers

Key Alliances

Market Barriers and Customer Issues

Chapter VIII – Forecasts: 2017 to 2025

Forecast Assumptions and Methodology

The Miniature Power Supply Product Forecast (PSiP
+ PwrSoC)

PSiP Market Forecast (Revenue, Quantity, and Price)

By Product Type

By Package Type

By Voltage Class

By Current Class

By Market Subsector

Upside Estimate Possibilities

PwrSoC Forecasts

(Modular & Granular)

Chapter IX – Business Success Recommendations

To the Component Suppliers, Manufacturers, Users,

Appendices

Appendix A – References

Appendix B – Definitions



The Anagenesis/LTEC Difference

Anagenesis is the leading analysis team for PSiP and PwrSoC markets since 2007 with in-depth research offering a unique perspective. Moreover, we have the engineering expertise and business relationships to capture the PSiP and PwrSoC customers' viewpoint. Customers say our reports are "deeply impressive" and "have details unavailable anywhere else." Our repeat business and referrals validate high customer satisfaction.

LTEC Corporation is Japan's leading, well-respected supplier of products and technologies teardown and deep analysis (benchmarking) for IP protection and new product R&D for over three decades. LTEC offers teardowns, deep analysis of competing products and technologies for product development, patents' enforcement, and defense with headquarters in Osaka, Japan, and local offices in the USA and the Asia-Pacific region.



You can order this market report today.

Report Price \$6,995.00 USD **Pre-Publication Price: \$5,880.00 USD (a 16% savings)**

Anagenesis Inc., Suite 2000, 222 N. Sepulveda Blvd., El Segundo, CA 90245 info@anagenesis-inc.com
Arnold Alderman Phone: 310 662 4764 Mobile: 310 704 7079 Ada Cheng Phone: 310 406 5691