



ZERION PAR-036

ISU Petasys Co., Ltd.

Paradigm Alignment Report

High-Layer PCB, AI Server Networking, Data-Center Interconnect, and Advanced MLB Substrate Bottleneck
Initial Draft | September 2026 | Based on Zerion Paradigm Alignment Manual v1.8

Field	Assessment
Company	ISU Petasys Co., Ltd.
Ticker	007660.KS
Country / Market	South Korea / KOSPI
Primary Asset / Network	High-layer MLB / PCB manufacturing for AI servers, switches, accelerators, and data-center networking
Zerion Classification	Paradigm Enabler / AI Infrastructure Component Supplier
Paradigm	AI data-center buildout, high-speed networking, high-layer PCB demand, and interconnect infrastructure
Report Status	Initial PAR draft; not investment advice

Investment Objective Lens: Zerion analysis seeks credible exponential opportunities. The aim is to identify 10x candidates while treating a credible 5x pathway as the minimum initial threshold for deeper work when uncertainty and optionality justify it. This report is an initial framework report, not an investment recommendation.

1. Executive Summary

ISU Petasys is aligned with the physical-infrastructure side of AI: high-layer printed circuit boards used in servers, switches, accelerators, and high-speed data-center networking. It is not a software company and not a chip designer; its relevance comes from the fact that AI clusters require increasingly complex interconnect hardware.

Recent evidence is strong. Reported Q2 2026 figures show revenue of KRW 379.9B, operating profit of KRW 77.1B, and operating margin around 20.3%, with revenue up about 57% year over year and operating profit up about 83%. Market sources show a USD 6B-plus market capitalization and a share price above KRW 110,000 in early September 2026.

Initial view: ISU Petasys is a strong PAR candidate with powerful AI PCB exposure, but CFF is moderated by customer concentration, capex, cyclical electronics demand, China/US exposure, and the risk that capacity expansion weakens returns.

Sources: [S1], [S2], [S3], [S4]

2. Current Market Snapshot

Metric	Snapshot
Latest price snapshot	Approx. KRW 112,300 on September 9, 2026
Market capitalization	Approx. USD 6.1B / KRW 8T range
Q2 2026 revenue	Approx. KRW 379.9B
Q2 2026 operating profit	Approx. KRW 77.1B
Operating margin	Approx. 20.3%
Key paradigm exposure	AI server and networking MLB/PCB demand

Market data is point-in-time and should be refreshed before investment use.

3. Zerion Score Summary

Framework	Score	Interpretation
PAR	7.8 / 10	Strong alignment with AI data-center interconnect and advanced PCB demand.
PAM	7.5 / 10	Recent revenue and operating profit growth confirm adoption momentum.
CFF	64 / 100	Moderate survivability due to concentration, capex, cycle, and customer/geography risks.
Confidence	Medium-High	Public data is sufficient for an initial report, but customer and capacity details require monitoring.

4. Paradigm Overview

The paradigm being evaluated is AI data-center buildout, high-speed networking, high-layer PCB demand, and interconnect infrastructure. ISU Petasys participates through High-layer MLB / PCB manufacturing for AI servers, switches, accelerators, and data-center networking.

Under the Zerion framework, the key question is whether this participant is aligned with a structural change, whether adoption evidence is real, and whether the value created by the paradigm can be captured by shareholders.

The correct Zerion lens separates paradigm quality from valuation, and separates operating traction from survivability.

ISU Petasys PAR Logic: Paradigm -> friction reduction -> adoption validation -> value capture -> inversion discipline.

5. PAR Assessment

PAR measures structural alignment with a meaningful paradigm shift. ISU Petasys scores 7.8 / 10.

PAR Component	Weight	Score	Weighted Contribution	Rationale
Paradigm Strength	15%	8.0	1.20	AI clusters require high-speed boards and advanced interconnect substrates.
Friction Reduction	15%	8.0	1.20	High-layer PCB supply reduces infrastructure bottlenecks.
Commercial Readiness	20%	7.8	1.56	Recent operating results show strong readiness.
Ecosystem Potential	15%	7.5	1.12	Ecosystem spans AI server OEMs, switch makers, accelerator vendors, and data centers.
TPO	15%	7.8	1.17	TPO grows with AI data-center networking and 800G/1.6T transitions.
EPC	20%	7.8	1.56	EPC is credible if capacity remains scarce and quality/yield remain high.
Total	100%		7.8 / 10	Strong structural alignment with AI hardware infrastructure.

6. PAM Assessment

PAM evaluates whether adoption, ecosystem expansion, institutional validation, and capital momentum are confirming the thesis. ISU Petasys scores 7.5 / 10.

PAM Component	Weight	Score	Rationale
Commercial Adoption	25%	8.2	Q2 2026 revenue and profit growth are strong.
Ecosystem Expansion	25%	7.5	Factory expansion and advanced MLB demand support ecosystem growth.
Institutional Validation	25%	7.2	KOSPI listing and analyst coverage validate visibility.
Capital Momentum	25%	7.0	Capital momentum is strong but tied to AI hardware cycle expectations.
Total	100%	7.5	Adoption evidence is meaningful but must be monitored against cycle risk and valuation.

7. CFF Assessment

CFF evaluates what could prevent the opportunity from realizing its potential. ISU Petasys scores 64 / 100. Higher is better.

CFF Component	Weight	Score	Comment
Technology Validation	20%	76	Manufacturing capability is credible but capacity ramps are complex.
Commercial Viability	15%	68	Strong margin now, but PCB pricing can cycle.
Funding & Liquidity	15%	62	Capex and working capital needs can rise.
Regulatory & Political Risk	10%	62	Trade restrictions and customer geography are material.
Governance & Management	10%	68	Execution record supports confidence.
Trust & Credibility	10%	70	Quality requirements create trust barrier.
Ecosystem Dependence	10%	58	Depends on end customers, materials, and data-center capex.
Competitive Threat	10%	58	Competes with other advanced PCB/MLB suppliers.
Total	100%	64	Survivability is credible, but execution, cycle, concentration, and valuation risks remain important.

8. PLS: Paradigm Lifecycle Stage

Layer	Stage	Interpretation
AI server PCB demand	Expansion	Demand is rising with accelerator cluster complexity.

Layer	Stage	Interpretation
High-layer MLB	Expansion	Higher-speed switches and accelerators increase board complexity.
Capacity expansion	Validation	New capacity can support growth but adds execution risk.
Customer diversification	Validation	Important for lowering CFF risk.

9. SAM: Stakeholder Alignment Matrix

Stakeholder alignment identifies who benefits, who resists, and which parties must cooperate for the thesis to compound.

Stakeholder	Alignment	Reason
AI server OEMs	High	Need advanced boards for data-center systems.
Cloud customers	Medium-High	Indirect beneficiary through supply chain.
Material suppliers	High	Copper laminate and substrates are essential inputs.
Capital markets	High	AI PCB theme has strong attention.
Regulators/trade policy	Mixed	Geopolitical supply-chain rules can affect demand and customers.

10. TPO and EPC

TPO evaluates the total economic field affected by the paradigm. EPC evaluates the participant's ability to capture value from that field.

TPO Layer	Opportunity Logic
AI servers	Accelerator and server boards grow with AI capex.
Data-center networking	Switches and routers need high-layer MLB.
800G/1.6T transition	Higher speeds increase ASP and complexity.
Supply-chain localization	Customers may value trusted non-China suppliers.

EPC interpretation: ISU Petasys captures value through manufacturing quality, capacity, customer qualification, and exposure to advanced MLB. EPC is strong when demand exceeds qualified supply, but weakens if capacity overbuild or customer concentration reduces pricing power.

11. Inversion Analysis: What Can Go Wrong?

- AI server PCB demand slows after capex digestion.
- Major customer concentration leads to sharp revenue swings.
- Capacity expansion creates pricing pressure.
- Material shortages or quality issues disrupt deliveries.
- Geopolitical restrictions alter customer demand or supply chains.

12. 10x / 5x Underwriting Lens

The 10x / 5x lens is an underwriting discipline. It asks whether the current valuation can plausibly compound into a much larger enterprise value under a realistic path, not whether the company is high quality.

Underwriting Test	Formula	Illustrative Result
5x market-cap hurdle	Current market cap x 5	Approx. USD 30B if starting near USD 6B
10x market-cap hurdle	Current market cap x 10	Approx. USD 60B

Underwriting Test	Formula	Illustrative Result
Primary question	Can advanced MLB remain a bottleneck?	Scarcity and customer quality must persist.

13. Scenario Analysis

Scenario	Description	Key Conditions	Illustrative Multiple
Bull / 5x	ISU becomes a key AI PCB bottleneck supplier.	AI server/network demand persists and margins hold.	5x
Base	Strong AI hardware supplier with cycles.	Growth continues but valuation normalizes.	2x-3x
Bear	Overcapacity and customer concentration hit returns.	Pricing falls, utilization drops, or customer mix weakens.	0.4x-0.8x

Illustrative probability-weighted view: the opportunity has asymmetry, but the 5x and 10x cases require both paradigm growth and sustained economic participation. These figures are not price targets.

14. REI Dashboard

Risk Area	Early Warning	Escalation	Resolution / Positive Signal
AI capex	Cloud capex slows	Orders cut across supply chain	Board demand stays above capacity
Customer concentration	One account rises	Program loss hits revenue	Customer mix broadens
Capacity	Aggressive expansion	Utilization drops	New capacity fills profitably
Margins	Pricing weakens	OPM declines sharply	High-layer mix supports margins

15. TVI Dashboard

Thesis Area	Evidence That Strengthens Thesis	Evidence That Weakens Thesis
High-layer demand	Revenue and OPM continue rising.	Mix shifts to lower-margin boards.
Customer quality	New global customers qualify.	Demand remains too concentrated.
EPC	Capacity scarcity supports pricing.	Supply catches demand quickly.
5x path	AI PCB becomes strategic bottleneck.	PCB treated as cyclical commodity.

16. Source-Checked Notes

The Q2 2026 metrics strongly support PAM, while market data confirms the company has already received significant recognition. The key uncertainty is whether high-layer PCB scarcity remains durable.

The report treats ISU Petasys as an AI-infrastructure enabler, not a direct AI compute company.

17. Initial Zerion Conclusion

ISU Petasys deserves PAR coverage because AI infrastructure requires physical interconnect capacity, and high-layer MLB is a real bottleneck in the AI server supply chain.

The initial conclusion is strong PAR with moderate CFF due to customer and cycle risk.

Final Initial View	Assessment
PAR	Strong
PAM	Strong but cyclical
CFF	Moderate

Final Initial View	Assessment
10x Status	High-bar / conditional
5x Status	Credible if AI PCB bottleneck persists
Next Work	Track customer concentration, backlog, high-layer mix, capacity ramp, and operating margin durability.

Source Register

ID	Source
S1	ISU Petasys IR Notice - Q2 2026 presentation - https://www.petasys.com/eng/ir/notice.jsp
S2	ISU Petasys Financial Information - https://www.petasys.com/eng/ir/financial.jsp
S3	StockAnalysis ISU Petasys - https://stockanalysis.com/quote/krx/007660/
S4	Investing.com ISU Petasys quote - https://ca.investing.com/equities/isupetasys

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Market data is point-in-time and may be stale. A complete investment decision would require independent verification, valuation analysis, financial modeling, risk assessment, portfolio construction, position sizing, and professional advice where appropriate.