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Company Overview

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01 ISU PCB Group Introduction



Founded / Product Applications

Sales / Operating Profit

* Consolidated Sales CAGR('20~'23) 10% (Petasys CAGR 20%)

(Unit: KRW B)

ISU Petasys (Korea)



- · 1989
- · Korea(Daegu)
- · Ultra-High layer (20L↑)
- · App.
- Al Accelerator
- Network/Server

ISU petasys Hunan (China)



- · 2013
- · China
- · MLB (~18L)
- · App.
- Network/Server
- Automotive

ISU petasys Corp (USA)



- · 2001
- · USA
- Sales Corporation
 (Suspension of Production Division, 2Q.'24)

| | | | | | ` | |
|----------------------|-------|--------|-------|-------|-------|--------|
| | | '20 | '21 | ′22 | '23 | ′24.1H |
| ISU Petasys | Sales | 335.1 | 363.5 | 497.2 | 579.0 | 342.6 |
| | ОР | 22.2 | 43.7 | 96.4 | 50.2 | 39.7 |
| ISU | Sales | 50.9 | 92.1 | 142.7 | 121.9 | 74.0 |
| Petasys Hunan | ОР | (10.7) | 2.4 | 20.3 | 15.2 | 10.9 |
| ISU Petasys US | Sales | 29.2 | 32.2 | 37.1 | 35.6 | 18.5 |
| | ОР | (3.6) | 0.8 | (0.6) | (3.8) | (0.4) |
| Consoli dated | Sales | 514.2 | 469.6 | 642.9 | 675.3 | 404.3 |
| | ОР | 2.0 | 46.9 | 116.6 | 62.2 | 50.5 |

02 Global PCB Suppliers Ranking



Specialized in the manufacture of multi layer PCB (18 Layers ↑)

Global MLB PCB(18L↑) Suppliers in '22

(Prsimark VHMLB PCB Market Share)

| Rank | Company | 18L † Sales(M\$) |
|------------|------------------------|------------------|
| 1 | ISU Petasys (Korea) | 374 |
| 2 | WUS (Taiwan) | 252 |
| 3 | TTM (US) | 239 |
| 4 | Shennan (China) | 175 |
| 5 | Gold Circuits (Taiwan) | 117 |
| 6 | Tripod (Taiwan) | 64 |
| 7 | Sanmina (US) | 59 |
| 8 | Shengyi (China/HK) | 57 |
| 9 | Yamamoto (Japan) | 55 |
| 10 | Yamamoto | 60 |
| 11 | Others | 235 |
| Top 10 Tot | al | 1,687 |

World Top PCB makers in 2022

| Rank | Company | Sales (M\$) |
|-----------|----------------|-------------|
| 1 | Zhen Ding | 4,835 |
| 2 | Unimicron | 3,342 |
| 3 | Dongshan | 3,270 |
| 4 | Nippon Mektron | 2,479 |
| 5 | TTM | 2,233 |
| 6 | Compeq | 2,146 |
| 7 | Tripod | 1,919 |
| 8 | Shennan | 1,820 |
| 9 | AT&S | 1,631 |
| 10 | Kinwong | 1,498 |
| 39 | ISU Petasys | 516 |
| Top 10 To | tal | 53,469 |

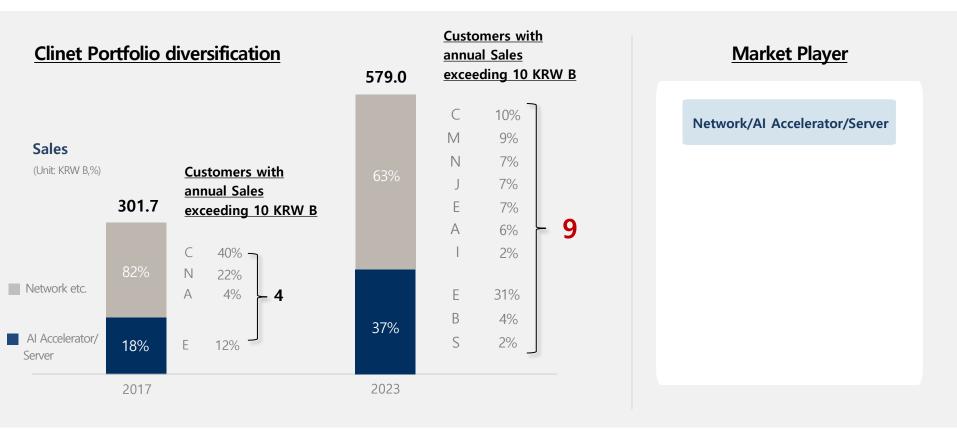
*Source : Prismark Report(2023.07)
*VHMLB : Very High Multi Layer Boards

03 Global Leading customers



The number of new customers is increasing.

Increased number of new major customers in growth industries such as AI accelerators



04 PCB Technology and Capacity Expansion



Strengthening production competitiveness through capacity expansion

Expected Increase in new sample products and orders due to shortened lead times

Technology and Quality

Having high manufacturing skills for core processes

Main manufacturing process

Lavering /

Layering / Circuit

Plating

Hole processing

Raw material Devleopment



HIMA STATE OF THE STATE OF THE

Measurement of signal speed

Technical skills

Layering and high

Precison matching

technology

Plating

High Precision

High Precision

Hiah-Level

Hole processing

Hole processing

Technical Level

ISUPetasys compa

44I

Other companies

| (IC Tester 100L) | 28L Lowe | | |
|---------------------|----------|--|--|
| 25 : 1 | 15 : 1 | | |

± 3mil ± 8mil

25 : 1 20 : 1

Ultra low | Mid loss | Loss material | (Df < 0.002) | (Df < 0.01)

※ Recent PCB Technology Trends: <u>Increased Product Thickness and Higher Plating Capability</u> Demands High-Precision Plating Products Up: Sales of products with a ratio of 16:1 or higher increased ('21: 39,000m² → '23: 51,000m²)

Capa investment completed (end of Q3.24)

Capa increase

(Sales 41.2 KRW B/month in '22 \rightarrow 65 KRW B/month (E) by Q4.24)



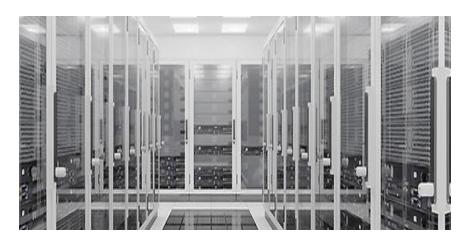
2 Reduction in Production Lead Time

- Lead Time: 16~20 weeks → 8~10 weeks (Q4.24)
- Minimize Sample and Production Time for New Products (800G Switch/OAM)

ex) 800G PCBs: Lead time reduced from 7 weeks to 4.5 weeks



02



Investment Highlights

- 01 Sales and Operating profit (Consolidated)
- 02 Sales and Operating profit (ISUPetasys)
- 03 Expansion of the AI accelerator market and increase in orders
- 04 Production of PCBs related to 800G switches
- 05 Overseas subsidiaries (Hunan/US) status

O1 Sales and Operating profit(Consolidated)



(Outlook for '24 Consolidated performance (E),YoY)

- Increase in Petasys AI accelerator orders
- Growth in subsidiary profitability

Continued large-scale AI accelerator sales from Customer E Increased profitability from restructuring ISUpetasys Corp(US)

Sales / Operating Profit

(Unit: KRW B, %)

| | | | | ′23 | | | ′24(E) | · | |
|---------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 구분 | | ′22 | 1H | 2H | | 1H | 2H(E) | 계 | YoY |
| Consolidated | Sales | 642.9 | 335.8 | 339.5 | 675.3 | 404.3 | 434.5 | 838.8 | 24% |
| Consolidated | ОР | 116.6 | 38.4 | 23.8 | 62.2 | 50.5 | 59.5 | 110.0 | 77% |
| ISUPetasys | Sales | 497.2 | 285.4 | 293.6 | 579.0 | 342.6 | 361.1 | 703.7 | 22% |
| | ОР | 96.4 | 30.9 | 19.3 | 50.2 | 39.7 | 49.4 | 89.1 | 77% |
| ISUPetasys Hunan | Sales | 142.7 | 56.1 | 65.8 | 121.9 | 74.0 | 66.0 | 140.0 | 15% |
| | ОР | 20.3 | 7.4 | 7.8 | 15.2 | 10.9 | 7.1 | 18.0 | 18% |
| ISUPetasys US | Sales | 37.1 | 18.9 | 16.7 | 35.6 | 18.5 | 7.4 | 25.9 | -27% |
| | ОР | (0.6) | (0.2) | (3.6) | (3.8) | (0.4) | 3.0 | 2.6 | -168% |

Performance trend

✓ Sales 24% ↑, OP 77% ↑ (YoY)

* ISUPetasys

- Increasing AI accelerator sales (customers: E, B)
- Network customer order recovery (customers: A, N, C)

* ISUPetasys Hunan

- Stabilized MLB production (~18L)

* ISUPetasys US

- Profitability improvement through the suspension of production division (NPI division)

02 Sales and Operating profit(ISUPetasys)



Sales **703.7**(KRW B)

OP **89.0**(KRW B)

(Outlook for '24 Petasys performance (E))

Al accelerator sales growth and an increase in network orders are expected in '24.2H

Steady demand for high-profit AI accelerators from Customer E Increased orders for new network products (800G) expected in '24.2H



Outlook

① Al Accelerator : Sales growth and increasing profitability from customer E

(Increase in sales for TPU5 and TPU6 from Customer E in '24.2H) - '23.1H 75.1KRW B \rightarrow '23.2H 85.4KRW B \rightarrow '24.1H 146.5 KRW B

- ② Network : Start of production for 800G switches (Production in progress focused on Customer A)
- 3 Increase in capacity and stabilization of fixed costs
 - Capacity investment Completed (Sep. '24)
 (Capacity: 15Km²/m → 22Km²/m)
 - The stabilization of fixed costs in '24 is expected to lead to an operating leverage effect with an increase in Sales





03 Expansion of the AI accelerator market and increase in orders

+15.9%

('24 Al accelerator order growth rate (E), YoY)

Continued increase in demand for AI accelerators and ongoing participation in new product development

Al Accelerator Orders: 60 KRW B in '22→ 239 KRW B in '23 → 280 KRW B in '24(E)

Global AI accelerator market size

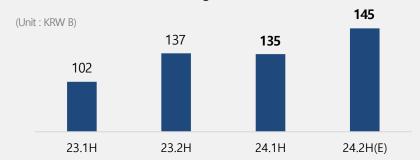
X Source : Prismark

- The accelerator market is expected to grow annually by 32% until '27.
- The GPU market is expected to grow rapidly with a CAGR of 51%. (AMD expected to expand its market share after '25)

[GPU market size] [Al Accelerators market size] 단위: B\$ 단위: B\$ 126.2 266 14 220 24.5 Α 173 172 133 AI/HPC Server 55 40.6 Storage 33 87.7 В 16.3 Server 106 100 38.6 15 '22 '23 '24(F) '27(F) '22 '23 '27(F)

Trends in AI Accelerator Orders

• (Customer E,B) Maintain strong demand for AI Accelerators



| customer | Progress Status |
|----------------|--|
| E | Expectations for increased demand for large-scale investments in AI Production of AI Accelerator follow-up Model (TPU v6) Scheduled for May '24 |
| В | - Factory Audit scheduled for end of January '24 an Multiple samples in progress |
| New Company | - Am & Aw : Preparing new business estimates - M : Responding to Al Accelerator product sample requests (Factory Audit in January) |

04 Production of PCBs related to 800G switches

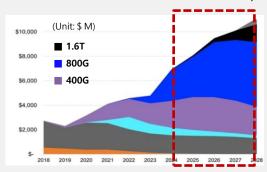


800G switches

- Start of production for network (800G) products in Q4.24.
- Expectation of increased demand from network customers

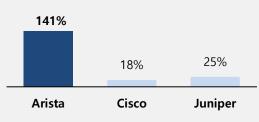
High-speed network market

• Increased network load due to the expansion of AI utilization



* source : LightCounting, Internal Estimates

[Sales growth rate from network customers] ('20 to '23)



"Increased demand for 800G replacements"

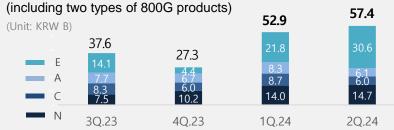
Demand for data transmission speeds greater than 800G is expected to account for over 50% of the total available market by '27

"Switch products are strong (customer A)"

- Use of Broadcom's general purpose chipsets
- → Maximizing compatibility with other companies' products
- Utilization of open source
- → Ease of maintenance

Network order trends

- Increase in Sales related to customer E's switches.
- Orders from customer A expected to be around 14 billion in Q4.24



| customer | customer trends and progress on 800G switches |
|----------|--|
| Α | - Production in progress(2 types)/Samples in progress (2 types) |
| С | - Samples for 6 types of 800G are in progress, with a production target set for the 1H.25 |
| N | - Increased orders due to inventory depletion - Samples for 800G (5 types) are in progress. |
| J | - Production in progress (1 type) |
| М | - Strong demand for 5 models (Minipack2, Wedge400) - Samples for 800G (2 types) are in progress |

05 Overseas subsidiaries (Hunan/US) status



Increase in profitability

- Stabilization of production at the Hunan subsidiary
- Restructuring of the business division in the Petasys US

ISUPetasys Hunan: Stabilization of multi-layer product production

• Increase Sales and profitability through production stabilization

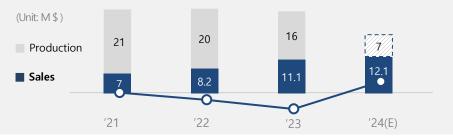


ISUPetasys Corp: Completion of suspension of production division(NPI) by 2Q.24

• Continued contraction of the NPI market in the North American region (NPI market shift: From North America to Asia)



- Change in handling of samples (NPI): From Petasys corp to Petasys) Cf. Petasys Corp's production division sales source: quick-turn sample manufacturing



E.O.D