

Semiconductor - Malaysia



Prepared by Bernard Lim, IEEE Malaysia Section



Penang, Malaysia

- Malaysia is one of the top 10 semiconductor manufacturers in the world?
 - Malaysia produced approximately 32.64 billion semiconductors in 2022 – Statista
 - Malaysia is consistently listed in the top 10 semiconductor manufacturing countries – Insider Monkey
- Malaysia's semiconductor industry is still expected to grow with a compound annual growth rate (CAGR) of 7% to reach an output of US\$46 billion or RM212.52 billion by 2028.
 – Eastspring Investments & PwC Singapore

MALAYSIA ACCOUNTED FOR 20% OF U.S. CHIP IMPORTS IN FEBRUARY 2023

India, Cambodia, Vietnam, and Thailand saw the largest increases

	FEB 2023 US\$ (million)	FEB 2022 US\$ (million)	CHANGE (Y/y)	SHARE IN 2023
WORLD TOTAL	4,856.7	4,139.8	+17.3% 🔺	100.0
Malaysia 🕒	972.9	1,319.6	-26.3 🔻	20.0
Taiwan 🥚	732.0	701.7	+4.3 🔺	15.1
Vietnam 😧	562.5	321.7	+74.9 🔺	11.6
Thailand 🧰	421.6	259.7	+62.3 🔺	8.7
South Korea 🛛 🧕	365.5	255.0	+43.3 🔺	7.5
Mainland China 🛛 🍪	225.5	244.6	-7.8 🔻	4.6
Japan 🧕	169.5	191.5	-11.5 🔻	3.5
Cambodia 🙆	166.3	20.8	+697.9 🔺	3.4
India 🙆	151.8	4.4	+3.4K 🔺	3.1
Philippines 💫	146.4	154.6	-5.3 🔻	3.0



Malaysia Semiconductor Landscape





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Malaysia Semiconductor Landscape





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Malaysia Semiconductor Landscape



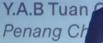


What is happening in the Malaysia Semiconductor landscape?

Lam Research Launches Manufacturing Plant in Penang with RM1b Investment

Aup 4, 2021





Tim Archer President and Chief Executive Officer, Lam Research Corporat

Aug 3 – Lam Research Corporation, a global supplier of innovative wafer fabrication semiconductor industry, today officially launched its new facility in Batu Kawan, Pana

Its president and chief executive officer (CEO) Tim Archer said the new manufacturin Park has a floor space of 800,000 sq ft, 100,000 sq ft more than planned earlier.

He said the new manufacturing facility will serve as the hub for Lam Manufacturing's ramp up production to become the highest volume manufacturing facility among the

"Moving forward, our plans are to continuously hire and build strong partnerships with increase our output over the next six to 12 months, and meet the very strong global or at a press conference after the virtual launching ceremony. Intel to Expand In Malaysia, Spend USD 15.8 Billion Over

10 Years



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Save

Malaysia aims for chip comeback as Intel, Infineon and more pile in

South-east Asian country aims to regain semiconductor edge as companies seek supply chain stability



Malaysia relies heavily on foreign companies such as Intel to sustain its chip industry @ Intel

Texas Instruments announces \$3bn manufacturing investment in Malaysia

US-based semiconductor manufacturer Texas Instruments has announced a double deal in Malaysia, worth just over \$3bn.

Richard Gardham 21 June, 2023

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Malaysia has received yet another boost with the news of a mega-investment from Texas Instruments. Gredit: thetahoeguy via





Silicon Valley of Malaysia

Penang Island, Malaysia



Penang, Malaysia: Silicon Island of the East



>50 years of industrial excellence & technical expertise

>350 MNCs, over 4,000 SMEs & >200 Malaysia Digital status companies

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Thriving Global Business Services (GBS) & Centre of Excellence (COE) for MNCs



Work – Live – Play balanced lifestyle with vibrant cultures - a UNESCO World Heritage Site



Houses 3 of the Global Top 10 semiconductor leaders (by sales)



Houses 6 of the Global Top 30 medical device companies (by sales)

Accounted for over 5% of global semiconductor sales

Top FDI recipient among Malaysian States





Source: DOSM & UN Comtrade

> 350 MNCs in Penang and counting



AND MANY MORE



At a glance: Penang as Malaysia's industrialisation hub

Total Manufacturing Investment [2022]	Total Manu
RM13.7 billion	RI
(16% of Malaysia's Total)	(15%

RM9.7 billion (15% of Malaysia's Total) Estimated Job Creation from Manufacturing Investment [2022]

15,752

Penang's Exports in 2022

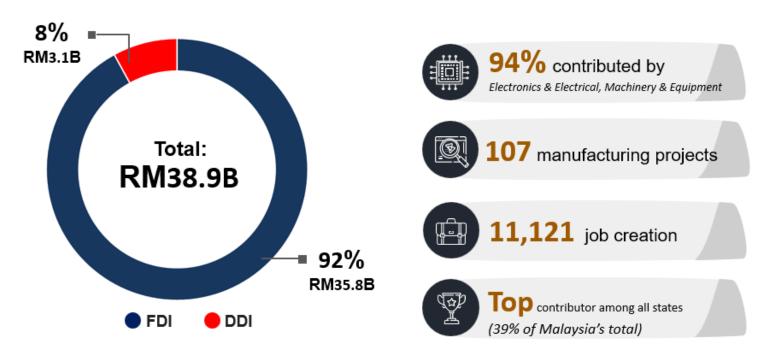
RM463 billion (30% of Malaysia's Total) Penang's Trade Surplus in 2022

RM170 billion (67% of Malaysia's Total) Penang's E&E Exports in 2022

RM341 billion (58% of Malaysia's Total)



Penang's approved manufacturing investments in Jan – Sep 2023 (9M23)





Source: InvestPenang, MIDA

Electrical & Electronics: Robust supply chain with diverse areas of expertise



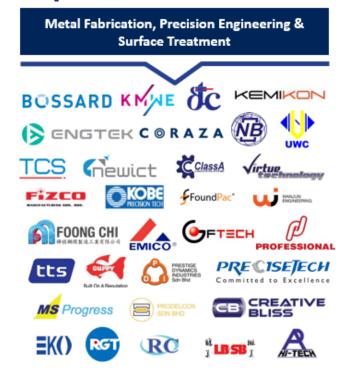








Electrical & Electronics: Robust supply chain with diverse areas of expertise







Source: InvestPenang, MIDA

HOUSING RENOWNED PLAYERS IN DIVERSE AREAS OF EXPERTISE



AND MANY MORE!



Source: InvestPenang, MIDA

