

Intellectual Property (IP) Theft in the Semiconductor Industry: Innovation at Risk



What is Intellectual Property?



Intellectual property (IP) is intangible property owned by an organization. It includes financial data, market research reports, creative designs, etc., and gives an organization a competitive edge.

Examples



Plant Specification



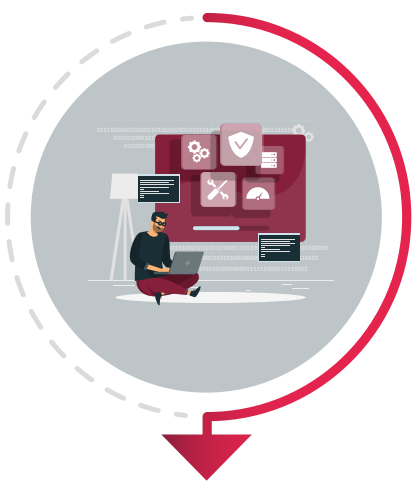
Patent Applications



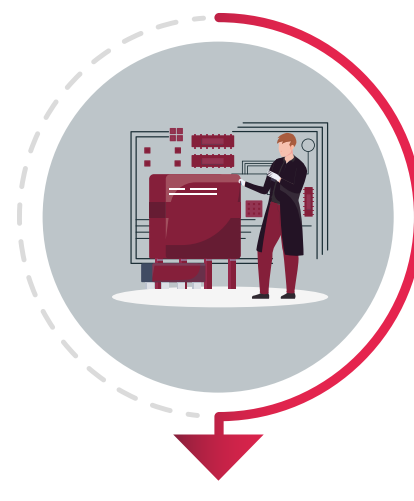
Marketing Content



Integrated Circuit (IC) Design



Customized Software Code



Semiconductor IP (SIP) Core

What is IP Theft ?

Intellectual Property (IP) theft means stealing creative ideas from companies. Storing IP in unsecured locations, on the cloud, or in emails increases the chances of theft and external leaks that may put your organization at risk.

Sensitive and confidential data, such as various types of IP, are instrumental in bringing about a company's intellectual and financial growth and gaining a competitive edge in the market. That is why protecting the IP from being shared unauthorisedly is crucial.



Data Security Challenges in the Semiconductor Manufacturing Industry



Supply chain Security



Merger and Acquisitions

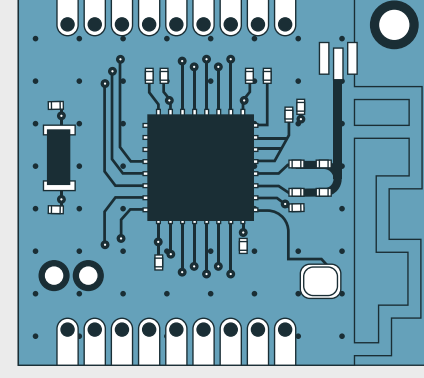


Collaboration amongst external and internal entities for innovation



Business Email Compromise (BEC)

In electronic design, a **semiconductor intellectual property core (SIP core), IP core, or IP block** is a reusable unit of logic, cell, or integrated circuit layout design that is the intellectual property of one party.



How Does

IP Get Stolen?

Stealing info via USB



Stealing info via email



Photographs/screenshots of IP



Access to sensitive information even after leaving the company



70%

Contribution of IP to the value of Publicly-traded companies

Source: LegalJobs

21.7%

American CFOs think their companies are victims of IP Theft

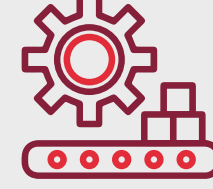
\$225 to \$600

Billion Annually
Cost of IP theft in the US

21%

Manufacturing Sector Suffered IP Loss Due to Security Breaches

Source: Kaspersky



\$550B

Loss due to IP theft by a foreign organization

Source: QML

Manufacturing and sub-industries

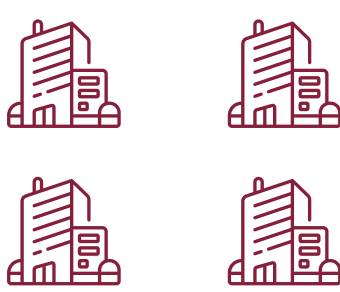
Most attacked industries in 2021

Source: IBM Cloud

\$4.24M

per breach
Cost of data breach for an industrial company

Source: IBM Cloud

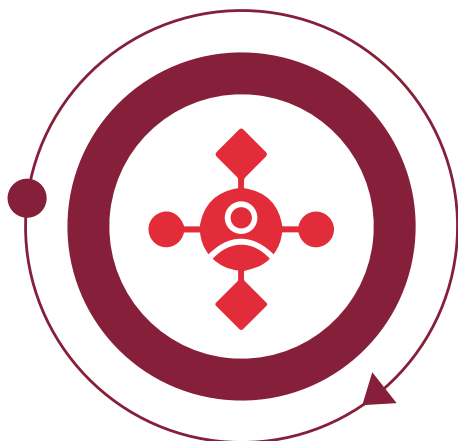


According to the CNBC Global CFO Council, **1 in 5 US companies**

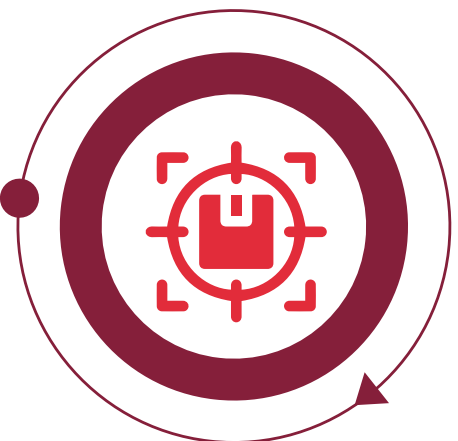
face IP theft by foreign companies or state-owned enterprises

Source: Aalbin

Why Digital Asset Protection & Control for IP?



Apply persistent, granular usage controls



Track activities on IP



Modify or revoke access to users at any time

Protect Digital Assets, Curb Insider Threats, Achieve Data Privacy & Compliance with

SECLORE™



Protects any file format



Protects IP wherever it is stored



Controls who have access



Integrates with a third-party solution

To learn the importance of digital asset protection and control in the semiconductor industry

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