

02 Sustainability Governance

2.1 Integrity Management and Legal and Regulation Compliance 2.2 Corporate Governance 2.3 Risk Management 2.4 Information Security and Privacy Protection 2.5 Innovation Management

Material Topics of This Chapter	Corporate Governance	Moral Integrity and Code of Conduct	Information Security and Privacy Protection	Innovation Management (Voluntary disclosure)
Corresponding GRI/SASB Indicators	GRI 2-9~2-21	GRI 205-3, 206	GRI 418, TC-HW-230a.1	None
Policy Commitment	<ul style="list-style-type: none"> Establish the "Code of Business Conduct", "CSR Best-Practice Principles", "Employee Ethical Code of Conduct", "Procedural Rules of Board of Directors", "Corporate Governance Best-Practice Principles", "Operating Procedures of Internal Material Information Process", and publicly commit to complying with the Responsible Business Alliance (RBA) since 2011. 		<ul style="list-style-type: none"> Establish the Information Security Committee to periodically report on information security management practices and outcomes to the Group President. Review and revise internal management regulations in accordance with domestic/overseas information security regulations and standards (e.g., NIST Cybersecurity Framework) so that information can be applied to realizing group business goals. Continue to provide customers with a safe and high-quality product experience by ensuring that the supply chain complies with the information security policy throughout the R&D, development, support, and manufacturing processes. Conduct regular offensive and defensive information security drills and strengthen information security awareness in the supply chain through information security training. 	<ul style="list-style-type: none"> Strengthen our industry leadership and protect key technologies by combining business targets with R&D resources and formulating an intellectual property strategy. Leverage the strategy to create value, enhance our competitive advantage and boost profits. Formulate "GIGABYTE Group Patent Reward Regulations"
Action	<ul style="list-style-type: none"> Convene the Board of Directors, Audit Committee, Remuneration Committee, and Nomination Committee on a regular basis and disclose actions taken. Regular continuing education and performance evaluations for Board members in accordance with the law. Participate in the Corporate Governance Evaluation and improve the governance strategy based on evaluation outcomes. 	<ul style="list-style-type: none"> Require new hires to sign the "Employee Code of Conduct". Establish dedicated employee whistleblower e-mail on the intranet, and provide communication channels for external stakeholders such as investors, customers, and consumers on the corporate governance website. Continue to host ethical management education and training. 	<ul style="list-style-type: none"> Provide employees and suppliers with regular training on information security and improve their alertness to potential risks. Define a privacy policy, inform customers of how personal data is being collected, used, and shared, and protect sensitive data through encryption. Use AI information tools and other technologies to ensure data security; conduct regular risk assessments, draw up response plans, and carry out recovery drills to ensure the availability of data; use a monitoring system to identify and respond to security incidents in a timely manner. Establish emergency response plans for damage mitigation and respond effectively to the general public and media to protect our business reputation. 	<ul style="list-style-type: none"> Disburse patent rewards every year in accordance with the "GIGABYTE Group Patent Reward Regulations". Allocate at least 3% of annual revenue to R&D every year to ensure mastery of key software and hardware technologies essential to future growth.
Tracking Mechanism	<ul style="list-style-type: none"> Disclose implementation of corporate governance in the annual report every year. Participate in the Corporate Governance Evaluation every year. 	<ul style="list-style-type: none"> Conduct regular investigations to check for violations of ethics, integrity, and important laws. 	<ul style="list-style-type: none"> Convene the Information Security Committee on a regular basis to report information security management practices and outcomes to the Group President. 	<ul style="list-style-type: none"> The Legal Affairs and Intellectual Property Division oversees all patent applications and maintenance activities within the Group.
Stakeholder Engagement Actions and Effectiveness	<ul style="list-style-type: none"> Regular disclosure of the Company's governance situation through annual reports, the official website, Sustainability Reports, etc. 	<ul style="list-style-type: none"> Provide communication and grievance channels for stakeholders. 	<ul style="list-style-type: none"> Maintain the business continuity of the Company and continue reducing the risk of information being tampered with or stolen due to negligence, outside attack, or natural disasters in order to protect the shareholder and customer interests. 	<ul style="list-style-type: none"> Reward employees who obtain a patent in accordance with the "GIGABYTE Group Patent Reward Regulations" every year. Regularly disclose R&D spending in the last two years and up to the date of publication in the annual report.
Medium and Long-term Goals	<ul style="list-style-type: none"> Continue refinement of corporate governance and revision of existing corporate governance guidelines in accordance with the law. 	<ul style="list-style-type: none"> Require all new hires to sign the "Employee Code of Conduct". Regularly provide ethical management training to all current employees each year. 	<ul style="list-style-type: none"> Establish an information security system based on a more complete information security framework. Foster the corporate safety culture as well as enhance the safety awareness of employees and supplier partners. Adopt even more advanced technologies and protections. Ensure corporate compliance with standards and regulations. Work with suppliers to establish emergency response and crisis management mechanisms/ education and training. 	<ul style="list-style-type: none"> Patents and awards obtained each year remain stable.
2023 Targets	<ul style="list-style-type: none"> Strengthen Board diversity and add at least 1 female director. Continuing education and performance evaluations for Board members in accordance with the law. 	<ul style="list-style-type: none"> The rate of new employees signing the "Employee Code of Ethics" reaches 100%. Provide yearly RBA education and training for native and foreign employees, supervisors, and seed lecturers. 	<ul style="list-style-type: none"> No major information security incidents. Obtain information-security-related certification such as ISO27001. Host information security education and training among employees and throughout the supply chain. 	<ul style="list-style-type: none"> Maintain consistency of patents awarded and awards distributed each year.
Progress towards Achieving 2023 Targets	<ul style="list-style-type: none"> 2 independent directors were elected during the 2023 shareholders' meeting including 1 female independent director. Continuing education and performance evaluations for Board members in accordance with the law were disclosed in the 2023 Annual Report. 	<ul style="list-style-type: none"> The rate of new employees signing the "Employee Code of Conduct" reached 100%. During 2023, corporate ethical management and anti-corruption training sessions were conducted 226 times and attended by 2,196 people. 	<ul style="list-style-type: none"> No major information security incidents. Both GIGABYTE and Giga Computing obtained ISO/IEC 27001:2022 and CNS 27001:2023 information security management system certification. Information security risk evaluations were conducted by domestic and overseas third-parties to maintain a grade of A for information security risk and maturity. Formulated and incorporated information security risk management regulations for the information supply chain into supplier management; 2 social engineering drills were executed and reinforcement trainings were conducted for employees who failed the drill. 	<ul style="list-style-type: none"> Acquired 107 patents in 2023, bringing the cumulative total to 2,965 patents. Products won 22 prestigious awards in 2023, including the Red Dot Design Award and the Taiwan Excellence Award.

2.1 Integrity Management and Legal and Regulation Compliance

Morality and integrity have been the core corporate culture of GIGABYTE since its foundation. We believe that operating with integrity and taking the responsibility to society into account is also essential for corporate sustainable development.

GIGABYTE complies with the Responsible Business Alliance (RBA) publicly, self-examines with the highest corporate ethical code of conduct, and establishes the Code of Business Conduct and "Responsible Business Alliance Code of Conduct" to guide equal and safe working environment, legal compliance obligation, external business activities, and corporate asset protection. To urge employees to abide by this Code, GIGABYTE requires every new employee to sign the "Employee's Ethical Code of Conduct", and also provides education training on anti-corruption, intellectual property rights, etc., to shape an emphasis on morality and integrity by the whole Company's members.

(For more details on the Code of Business Conduct, please refer to [GIGABYTE CSR Website](#))

GIGABYTE commits that all business activities fully comply with the laws and regulations of the country and region where GIGABYTE operates and encourages employees to formulate and implement self-standards higher than the basic legal requirements, and also actively promotes social and environmental responsibilities and business ethics in line with internationally recognized standards. The Legal & IP Affairs Division is responsible for regularly supervising and tracking the laws and regulations of domestic and foreign areas where GIGABYTE operates or sells products. All the Company's employment practices, supply chain management, and customer service comply with relevant international trade tariffs, fair trade, hazardous substances prevention, anti-bribery, anti-boycott laws and regulations, human rights standards, and other conventions and regulations.

For employees, GIGABYTE continues to organize and introduce training on ethical management. Course topics encompassing legal affairs and intellectual property, internal audit and controls, accounting systems, and ethical management are offered to managers, general employees, and foreign employees based on their requirements to ensure that every employee understands the GIGABYTE ethical management vision and system. Related courses were held 226 times in 2023. 2,196 people received 3,538.1 hours of training.

In addition to proactive training and education, safe and anonymous grievance channels are also provided to employees. Once receiving a complaint, it will be treated on a case-by-case basis, and disciplinary actions will be taken if necessary. The range of complainants also expands to distributors to ensure that employees

	Number of Breaches in 2023
Corruption or Bribery	0
Discrimination or Harassment	0
Customer Privacy Data	0
Conflicts of Interest	0
Money Laundering or Insider Trading	0

always adhere to the ethical boundaries for business dealings. The Company promises that employees will not suffer demotion, penalty, or other adverse consequences even if their compliance with the ethical rules results in business losses. We hope this will support building an anti-corruption environment. There were no violations of ethics and integrity or serious violations of the law at GIGABYTE's Taiwan bases in 2023.

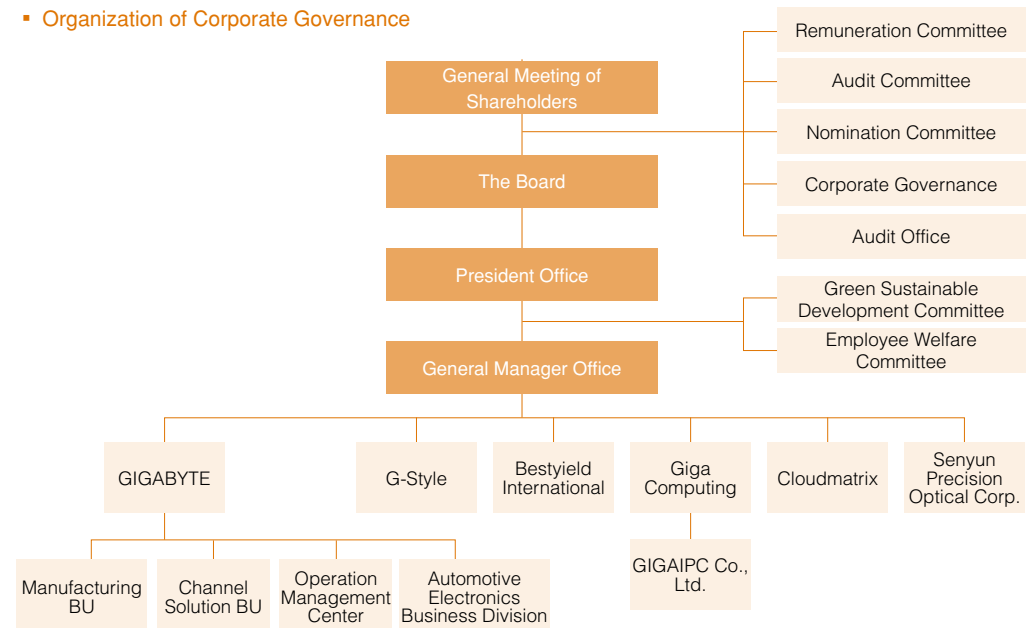
(For more stakeholder communication channels, please refer to [GIGABYTE Investor Website](#))

2.2 Corporate Governance

Robust corporate governance is the backbone of business operations. By setting a governance organization and a transparent and prudent decision-making process, GIGABYTE ensures that every step of operational strategy can take full account of all stakeholders.

Internal audits and self-inspections are periodically conducted in accordance with corporate governance regulations and principles and to respect shareholders' interests. Clearly defined rules such as the "Rules of Procedure for Board of Directors Meetings" and the "Procedures for Handling Material Inside Information" ensure operational transparency and prevent conflicts of interest so that the management team can focus on managing the business and fulfilling social responsibility.

Organization of Corporate Governance



[Note] This graphic was based on the internal organization chart issued in 2023 and does not include the GIGABYTE subsidiary Selita Precision.

2.2.1 Board of Directors and Management Team

Board of Directors

The Board of Directors is the top decision-making body for business management activities. The Company's "Procedures for Election of Directors" stipulates the use of the candidate nomination system for Board elections. Directors are elected by shareholders from the nominated candidates. In 2023, the GIGABYTE board of directors was composed of 11 directors (including 2 independent directors added by the general shareholders' meeting in June). The Chairman was Mr. Dandy Yeh, with the Board being made up of 6 directors and 5 independent directors. None of the independent directors had served for more than 3 consecutive terms, and 1 independent director was a woman with a legal background. The Board was convened 11 times during 2023, and average attendance was 96.73%.

Board members come from a variety of professional backgrounds including business, science and technology, finance/accounting, law, and marketing. To maintain the professional strengths and abilities of the directors as well as promote the sustainability of the company, the directors regularly attend courses on governance, sustainable development, industry trends, and regulatory changes. A performance evaluation is conducted by the GIGABYTE Board every year. A Remuneration Committee and Audit Committee have also been set up as required by law to enhance the functionality of the Board and to ensure the fairness of the Board's hiring decisions and resolutions.

(For more information on the Board's diversity, independence, and professional experiences, please refer to pp.18-19 of the [GIGABYTE 2023 Annual Report](#))

(For more information on each director's continuing education and performance evaluation, please refer to p.37 and pp.46-47 of the [GIGABYTE 2023 Annual Report](#))

Remuneration Committee

In order to assess the achievement of performance goals for the Company's directors, supervisors, and managers and to maintain the appropriateness of individual remuneration, GIGABYTE established the Remuneration Committee in 2011 in accordance with the Securities and Exchange Act. In 2023 the GIGABYTE Remuneration Committee was made up of 3 independent directors (Mr. Hwei-Min Wang, Mr. Zheng-Li Yang, and Mr. Peng-Huang Peng). The committee was convened 7 times, and average attendance was 100%.

(For the details of composition, responsibilities, and operation conditions for the Remuneration Committee, please refer to pp.48-49 of the [GIGABYTE 2023 Annual Report](#))

Comparison of the Annual Remuneration^[1] and Increase Percentage between the Highest-paid Individual and General Employees^[2]

	Taiwan Bases		China Bases	
	The Highest Annual Remuneration	Median Annual Remuneration of General Employees	The Highest Annual Remuneration	Median Annual Remuneration of General Employees
Remuneration Ratio	20	1	9.1	1
Ratio to Median Increase Percentage	-0.19	-1	0.29	1

[Note 1] The Annual Remuneration: The sum of fixed salary and floating salary.
 [Note 2] General Employees: The statistical benchmark is based on the employees in service at the end of December 2023.
 [Note 3] Negative value was due to an overall decrease in compensation at Taiwan bases in 2023.

Audit Committee

The Audit Committee is to supervise the proper expression of the Company's financial statements and the independence and performance of the certified accountants, as well as to ensure the Company's compliance with laws and the effectiveness of the internal control system. The Committee meetings are convened at least once every quarter and convened at any time whenever necessary. A valid resolution must be approved by more than one-half of all members, and meeting minutes must be made according to laws and regulations and retained indefinitely. In 2023, the Audit Committee was made up of 5 independent directors (Mr. Hui-min Wang, Mr. Yi-hung Chan, and Mr. Cheng-li Yang, as well as the independent directors Ms. Li-Chen Lin and Mr. Peng-huang Peng added after the shareholders' meeting in June 2023). The Committee was convened 11 times, and average attendance was 100%.

(For more information on the operation of the Audit Committee, please refer to p.38-41 of the [GIGABYTE 2023 Annual Report](#))

Nomination Committee

The GIGABYTE Nomination Committee was established on August 3, 2021, to strengthen the functionality of the Board and management mechanism. The Committee members elect one of their members as the convener and chairperson. Members of the current Nomination Committee will serve until the end of their directorship. In 2023, the Nomination Committee was made up of 1 director (Mr. Dandy Yeh) and 2 independent directors (Mr. Hwei-Min Wang and Mr. Zheng-Li Yang). The Committee was convened once and the average attendance of committee members was 100%.

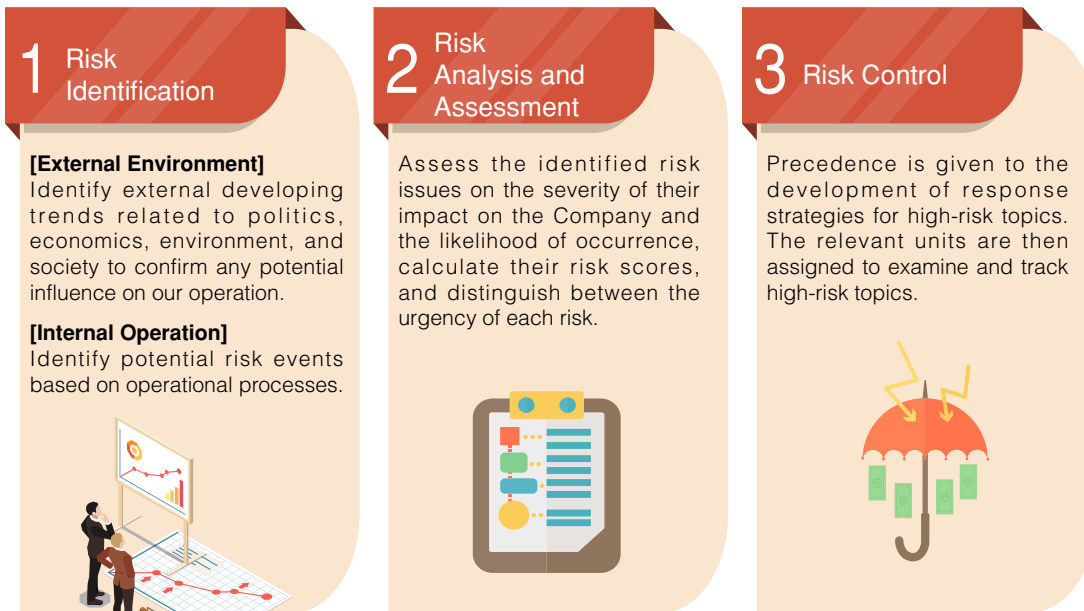
(For more information on the operation of the Nomination Committee, please refer to p.50-51 of the [GIGABYTE 2023 Annual Report](#))

2.2.2 Internal Audit

GIGABYTE's internal audit unit is an independent unit that reports directly to the Board of Directors. In addition to regular reports at routine Board of Directors meetings, the internal audit unit also reports to the Chairman monthly or anytime when necessary. The internal audit plan is an important part of corporate risk management and can weigh and discover the performance of all departments and operational processes. For example, if there is a deficiency during the audit process, the auditor will immediately notify each audited unit or subsidiary to take appropriate improvement measures. GIGABYTE's internal audit is divided into 10 major audit directions, including salary cycle, product production and equipment cycle, as well as cash-flow-related cycles like receiving/payment and financing, to examine the Company's daily operation comprehensively.

In addition to the internal audit, GIGABYTE regularly discloses company-related information on the Company's website and TSE Market Observation Post System and actively incorporates external evaluation mechanisms, such as participating in the Corporate Governance Evaluation System by the Financial Supervisory Commission (FSC) every year. GIGABYTE ranked 36-50% among all listed companies in the 10th Corporate Governance Evaluation. We will keep

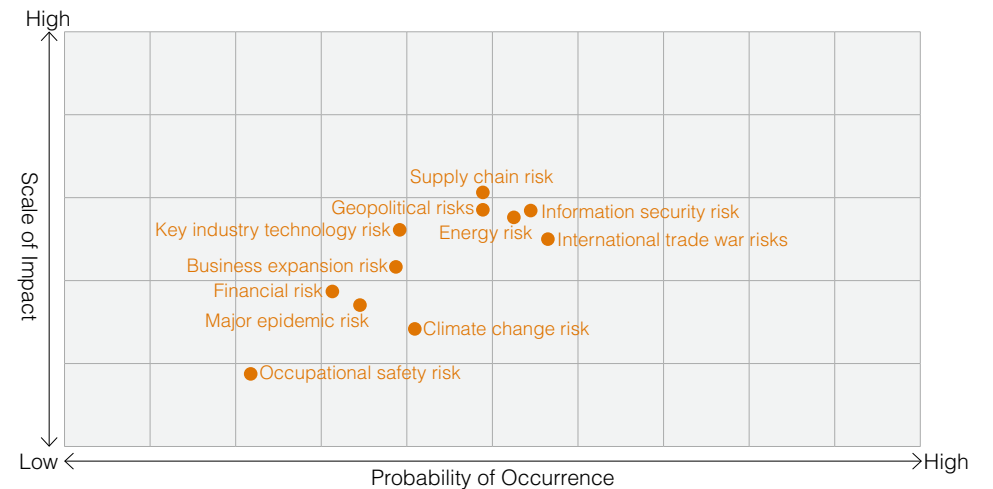
▪ GIGABYTE Risk Management Process and Management Actions



taking the lesson from the evaluative results, list the insufficient part as the priority for future improvement, and expect to improve our corporate governance gradually.

2.3 Risk Management

Sound risk control is fundamental to sustainable corporate management. The concept of a Business Continuity Plan (BCP) was introduced by GIGABYTE in 2023. Threats, vulnerabilities, and risks in business operations are identified and assessed in order to protect operations from disaster and accidental damage. If an incident does occur then the resulting impact and interruption are minimized as well. 11 areas of risk were identified through the risk management process in 2023. Senior executives above the manager level then participated in evaluating the degree of impact on the Company from each risk (score 0-5) and their likelihood (multiplying the probability of occurrence by 0-100% and time of occurrence by 1 to 4). A risk matrix was then drawn up based on the results. The appropriate departments were then commissioned to develop a sound risk management method using their professional knowledge and practical experience in related fields.





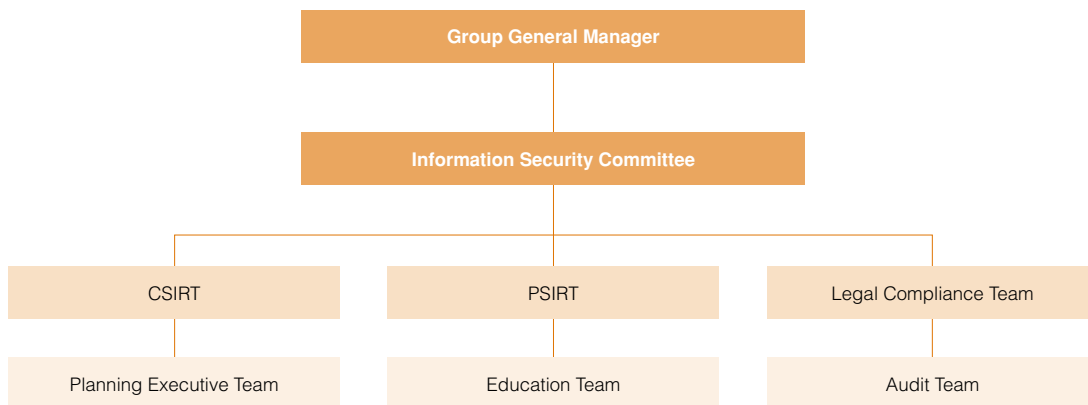
Risk	Description of Risk	Scope of Impact			Final/Risk Score (maximum score is 5)	Risk Control Measures
		Upstream	Operation	Downstream		
Energy Risk	Unstable energy supply, volatile energy prices, environmental compliance risk.		V		2.033	<ul style="list-style-type: none"> The Taipower Company has raised corporate electricity rates for three consecutive years because of rising global fuel prices and with more increases expected in the future. GIGABYTE has optimized its processes through the introduction of production automation and smart warehouse storage to improve energy efficiency and cut electricity costs in recent years. GIGABYTE operating locations in Taiwan are not subject to the "Large Electricity Users Clause" but we are now evaluating investing in the construction of renewable energy. The installed capacity is expected to be slightly higher than the total contracted capacity of our business headquarters and Nanping Factory in Taoyuan. GIGABYTE operating locations in Germany began using renewable energy from solar panels in 2020. As of 2023, 171.397 MWh of electricity has been generated, the equivalent of reducing CO₂ emissions by 111.24 tonnes. For more information, please refer to 3.1.1 Greenhouse Gas and Energy Management.
Financial Risk	Capital and liquidity risk, exchange risk, capital cost risk, non-performing asset risk, and investment market risk.		V		1.074	<ul style="list-style-type: none"> The Board sets overall financial risk management principles and issues written policies for specific ranges and items such as interest rates, exchange rates, use of derivative and non-derivative financial instruments, and investment of surplus liquidity. These are all implemented by the financial department.
Information Security Risk	Information leak risk, computer virus and malware risk, cloud security risk, social engineering and phishing risk.	V	V	V	2.118	<ul style="list-style-type: none"> Establish the Information Security Committee as the highest governance unit for information security risk management. Revise management regulations in accordance with domestic and overseas information security regulations and standards as necessary to ensure confidentiality, integrity, and availability of information. <p>For more information, please refer to 2.4 Information Security and Privacy Protection.</p>
Supply Chain Risk	Supplier risk, demand volatility risk, logistics and transportation risk, and international trade risk.	V	V		1.964	<ul style="list-style-type: none"> The RBA Code of Conduct issued by the Responsible Business Alliance was used as the guiding principle for defining the 4 management aspects (15 sub-targets) and 4 zero-tolerance rules. A new tiered supplier management system was introduced in 2022 to better reflect suppliers' overall sustainability performance. Information on products, materials and parts, logistics, customs, and taxes are collated by the Global Logistics and Risk Management Division. Product compliance, operations, and other related matters are managed through the global operational risk management platform. Employee education and training are also conducted at various times to prevent disruptions to business continuity. <p>For more information, please refer to 4.1.2 Supply Chain Risk Management.</p>
Major Epidemic Risk	Employee health risk, supply chain disruption risk, and international trade restriction risk.	V	V		1.153	<ul style="list-style-type: none"> Promote a tiered management system for employee health and conduct special tracking and management based on the results of health exams each year. Medical subsidies and health management incentives are also provided for high-risk groups. Everyday health activities and promotions, overwork and occupational injury prevention, and EAPs help to maintain the physical and mental well-being of employees as well as reduce the risk of occupational disease. Epidemic prevention measures were announced and implemented in a timely manner in response to developments in epidemics such as COVID-19, Monkey Pox, and Influenza. <p>For more information, please refer to 5.3.2 Healthy and LOHAS Workplace.</p>
Climate Change Risk	Logistics and supply chain risk, natural disaster risk, and resource supply risk.	V	V		1.314	<ul style="list-style-type: none"> Introduce the Task Force on Climate-related Financial Disclosures (TCFD) framework and annual disclosure of climate information through the CDP, build a comprehensive process of climate risk identification, matrix, and scenario analysis, and link climate impacts to financial performance. For more information, please refer to the CSR Website and "GIGABYTE 2023 TCFD Report." Expand to monitor the climate-related transitional and physical risks along the supply chain since 2019.
Occupational Safety Risk	Safety incident risk.		V		0.642	<ul style="list-style-type: none"> Define the Risk Assessment Procedures for the working environment. Each year, the EHS department compiles the Hazard Identification Form based on the irregular examination of the on-site environment, the impact of hazards, and current controls. EHS-related hazards and risks are classified into 4 levels, and each is then inspected in turn to determine the adequacy of the existing management process. <p>Please refer to 5.3.1 Environmental Safety and Health.</p>

Risk	Description of Risk	Scope of Impact			Final/Risk Score (maximum score is 5)	Risk Control Measures
		Upstream	Operation	Downstream		
Key Industry Technology Risk	Technology obsolescence risk.		V		1.489	<ul style="list-style-type: none"> Cautiously develop patent and trademark strategies for key technologies of the Company. Also, participate in product and technology development plans every year to actively seek out potential patents. Disburse patent rewards every year in accordance with the "GIGABYTE Group Patent Reward Regulations" to encourage continued internal innovation. Information on products, materials and parts, logistics, customs, and taxes are collated by the Global Logistics and Risk Management Division. Product compliance, operations, and other related matters are managed through the global operational risk management platform. Employee education and training are also conducted at various times to prevent disruptions to business continuity. Establish self-inspection and external verification process for strategic high-tech products, set up product homepage and management platform for storing related certifications. Establish control mechanisms and systems for incoming inspection exemptions and host information seminars on incoming inspection exemption process. Host education and training on customs clearance for strategic high-tech products, cargo insurance, and customs determination of original place of manufacture.
Business Expansion Risk	Market risk, resource pressure, inadequate management capability, and quality control risk.		V		1.381	
Geopolitical Risks	Political risk, market risk, supply chain risk, and policy risk.	V	V		1.918	
International Trade War Risks	Trade restriction risk, decline in market demand risk, trade uncertainty risk, and international reputation risk.		V		2.111	

2.4 Information Security and Privacy Protection

An Information Security Committee was established by GIGABYTE in 2021. An information security policy and management structure were formulated in accordance with international standards, regulatory requirements, privacy protection, risk management, and crisis management. The Committee is responsible for promoting information security management, planning, supervision, and implementation across the organization. It also regularly reports to the Group General Manager on the effectiveness of information security management activities and systems by the information security management organization.




Structure of Management Organization



Information Security Policy

- Information security management rules are reviewed and updated every year in accordance with international information security standards (NIST CSF framework) and domestic/overseas information security regulations.
- Ensure the confidentiality, integrity, and availability of information so that they can be securely, correctly, appropriately and reliably used for the planning, management, and realization of Group targets.
- Ensure that information security management during R&D, product development, cloud services, and manufacturing supply chain are all in compliance with the information security policy in order to effectively reduce management risks, increase the overall maturity of information security, and ensure a safe, quality product experience for customers.
- Enforce information security by conducting regular offensive and defensive information security drills and strengthening internal information security awareness through employee training.

Management Goals and Accomplishments in 2023

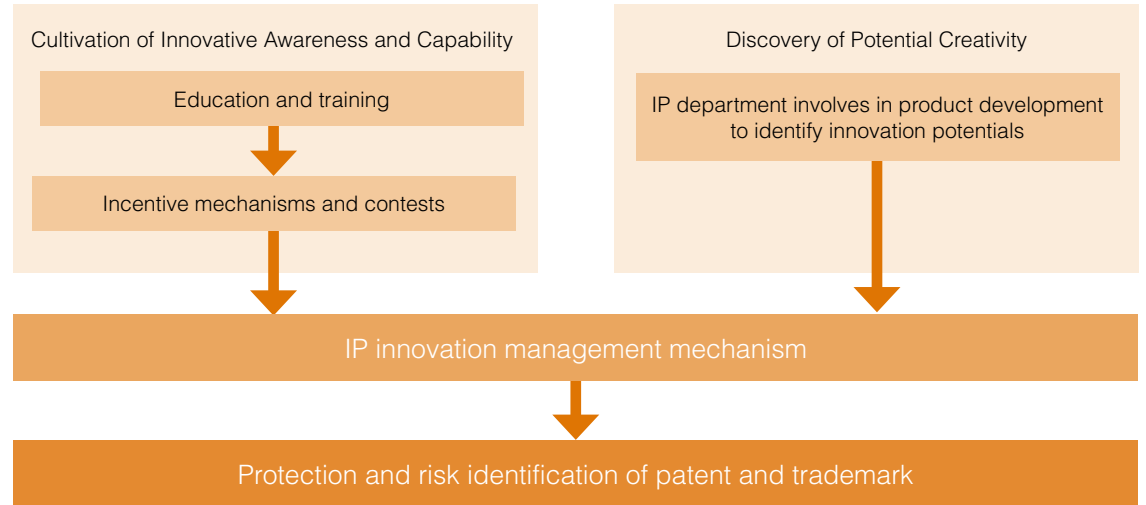
Management Target	Achievement in 2023
 <p>Enhance Information Security Maturity</p>	<ul style="list-style-type: none"> GIGABYTE and subsidiary Giga Computing obtained ISO/IEC 27001:2022 and CNS 27001:2023 information security management system certification. Information security risk evaluations were conducted by domestic and overseas third-parties with a grade of A maintained for information security risk and maturity. Joined the Taiwan Chief Information Security Officer Alliance and TWCERT. Carried out third-party vulnerability analysis and simulated hacker attacks and conducted one information security incident reporting and response drill at least once every year. Formulated and incorporated information security risk management regulations for the information supply chain into supplier management.
 <p>0 Major Information Security Events</p>	<ul style="list-style-type: none"> Total number of information security attacks: 0 Total number of customers, consumers, and employees affected: 0
 <p>Strengthen Information Security Education Training for Employees and the Supply Chain</p>	<ul style="list-style-type: none"> 2 information security policy and awareness training sessions were held for all employees with a total attendance of 1,255. Monthly reinforcement classes were held for employees who failed the social engineering drill to boost their security awareness and alertness. Total attendance was 589. 3 supply chain information security evaluation seminars were held for suppliers to explain the evaluation management regulations and their rights and obligations during evaluations. Total supplier attendance was 154.

There were no leaks of customers' personal information in 2023. For more information, please refer to 4.2 Customer Relations Management.

2.5 Innovation Management

GIGABYTE continuously focuses on innovative R&D in order to master critical cutting-edge software and hardware technologies so that they can be harnessed to create a better life for all of humanity. A sound management mechanism has been developed by GIGABYTE to help employees turn their creative inspirations into competitive products and services. We also continue implementing the "GIGABYTE Patent Reward" and organizing education/training and proposal challenges in order to cultivate an atmosphere and corporate culture that embraces creativity and reformation.

Innovation Management Process

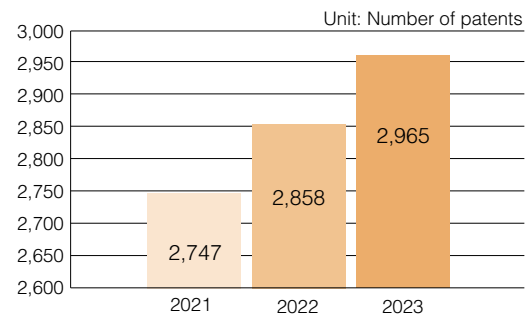


Intellectual Property Management Plan

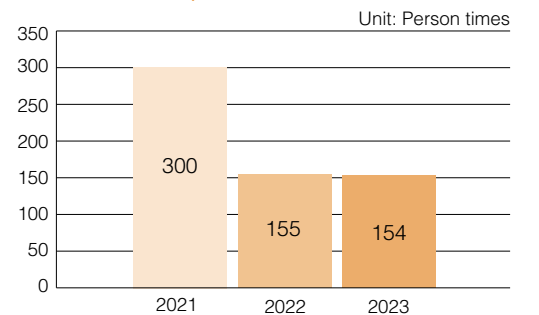
To strengthen our industry leadership and protect key technologies, GIGABYTE combined business targets with R&D resources and formulated an intellectual property strategy to create value, enhance our competitive advantage, and boost profits. IP-related matters are also reported to the Board.

The Legal Affairs and Intellectual Property Division oversees all patent applications and maintenance activities within the Group. GIGABYTE has approved more than 100 patents in the last 3 years and the accumulative number of obtained patents up to 2023 is 2,965. Besides, the internal patent rewarding mechanism encourages employees to engage more in innovation development and turn their creativity into reality.

Cumulative Number of Obtained Patents



Number of Recipients for Internal Patent Rewards



[Note] Rewards included trophy and prize money. A single person may receive multiple rewards at the same time.



2023 Innovation Highlights

Information Computing

High-speed 5G network computing power

The deployment of existing Radio Access Network (RAN) and core networks requires servers that support virtual machine or container technology and can run reliably for extended periods of time. GIGABYTE has developed infrastructure servers tailored for the telecommunications industry that simplify remote- and near-end network deployment. Product lines that span the x86 and ARM architectures are designed specifically for network applications and have passed all of the relevant electromagnetic, environmental, and information security testing.

★ The R243-EG0 and R143-EG0 servers support the AMD EPYC™ 8004 series processor. These can be used in edge clouds and telecommunications equipment to deliver exceptional performance with low power consumption.



AI Computing Power

GIGABYTE AI servers support a variety of CPU and GPU architectures. They have also obtained performance and software compatibility certifications from leading hardware brands. High-density, excellent cooling, and ease of management means they can be used to accelerate complex neural network training, deep learning, and large language model operations. The servers have extensive applications in biomedical engineering, cloud service, climate change simulation, and other fields.

★ GIGABYTE, researchers from Universidad Rey Juan Carlos, and SIE worked together to build a computing cluster system made up of G492-ZD2, R182-Z91, S451-3R1, and R182-Z91 for anti-aging research.



Digital Innovation and E-Sports Entertainment

AORUS Z790 X Gen Motherboard

The AORUS Z790 X Gen Motherboard features cutting-edge technology to provide the best DD5 compatibility and performance. The all-new back via technology improves signal integrity. This series of products uses an advanced all-metal thermal design to cope with high workloads. Some of the flagship models have adopted the VRM Thermal Armor Fins-Array design to improve heat dissipation by 10% using a special nano-carbon coating. The new generation of Ultra Durable™ technology enhances load-bearing capacity to guarantee durability. A host of other innovative DIY-friendly functions simplify the system-building process for enthusiasts.

AORUS Waterforce All-in-One and Open Liquid-cooled System Graphics Card

The AORUS GeForce RTX 4070 Ti XTREME WATERFORCE 12G and the WB 12G graphics card both use hand-picked premium over-clocked GPUs with liquid cooling for effective heat dissipation as well as protection of key memory/IC components. The power supply design and Ultra Durable-certified components allow the graphics card to deliver high performance while maintaining a lower operating temperature. Aerospace-grade PCB coating for dust and humidity protection makes the graphics card more resistant to damage from condensation.

Intelligent Transportation

Autonomous Driving Testing Simulation Safety

After undergoing repeated training and inferencing, the AI of autonomous vehicles can be tested using a traffic model with computer-simulated real-world road conditions to ensure their safety. Data such as number of vehicles, vehicle spacing, and vehicle speeds must be collected through numerous roadside devices to improve the accuracy of the model. GIGABYTE ARM servers use CPUs with "Cloud Native" ARM architecture. Transfer and processing speeds are improved because no transcoders are needed to "interpret" data collected by roadside devices. The multi-core ARM CPU also boosts performance and reduces the Total Cost of Ownership (TCO).

★ G242-P32 ARM servers helped the National Taiwan University develop its "High Precision Traffic Flow Model."



Smart Healthcare

AI-assisted Medical Diagnosis

The trained AI model can assist doctors during consultations and analyze medical images for real-time AI inferencing to quickly generate Electronic Health Records (EHR). Be it large hospitals looking to set up a data center or server room, or offices in small clinics, GIGABYTE products can help improve the efficiency of healthcare delivery.

★ For large hospitals setting up a data center or server room, the G293-Z43 server offers an industry-leading high-density design that packs 16 AMD Alveo™ V70 accelerator cards into a 2U form factor for exceptional computing performance. Alveo™ V70 also uses the XDNA™ adaptive data flow architecture to reduce the amount of memory required for transferring data between nodes in the AI model.

★ The W771-Z00 server can be deployed directly in the clinic or on an office desk for AI inferencing. It also supports the AMD Ryzen™ Threadripper™ PRO CPU with sufficient expansion slots for up to seven additional GPU accelerator cards or four double-slot accelerator cards, ensuring that the server has no shortage of computing power.



Remote Collaboration

Remote and 3D Design Collaboration Solution

GIGABYTE assisted the Display Center of the Taiwan Architecture & Building Center with the deployment of its "Remote Education and 3D Design Collaboration" solution. The high performance and flexibility provided by GIGABYTE enabled the application of real-time remote and 3D collaboration in the architecture, engineering, and construction industries.

★ GIGABYTE W771-Z00 GPU work stations were added as virtual machines to the NVIDIA Omniverse core architecture. The system was accessed via BRIX Extreme mini-PCs GB-BEi7HS-1260 and GB-BER7HS-5800.

