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Q2 Half-Year Report 2022

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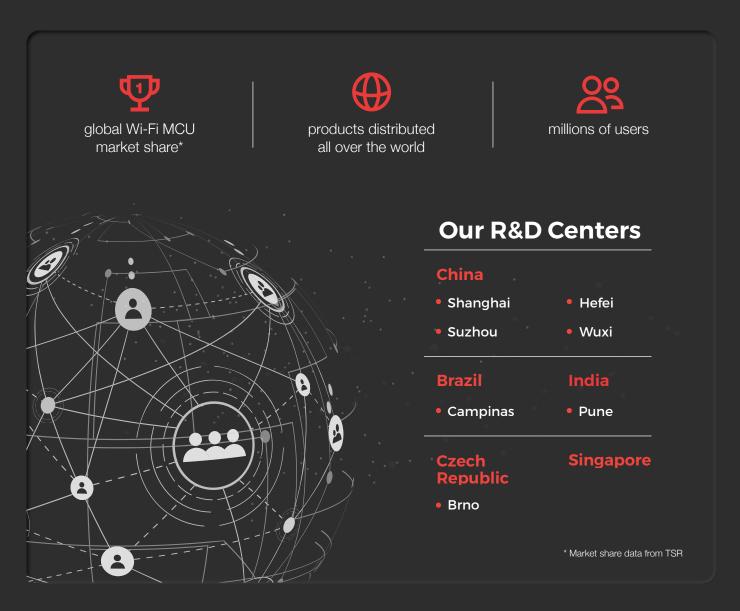
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List of abbreviations

About Espressif

Espressif Systems is a public, multinational, fabless, semiconductor company focused on developing cutting-edge, wireless-communication, low-power chipsets. By leveraging wireless computing, we provide green, versatile and cost-effective AloT solutions. We have accomplished a hardware-and-software, closed-loop development cycle for a series of core technologies, including RF, Wi-Fi & Bluetooth LE network protocol stacks, RISC-V MCUs, Al instruction sets and algorithms, operating systems, toolchains, compilers, loT software application frameworks, Cloud, etc.

We have a diverse team of engineers from around the world. All company branches employ more than 550 members of staff from almost 30 countries and regions, +76% of whom are based in our Research & Development Department. We have eight R&D centers in five countries, including China (4 out of 8), India, the Czech Republic, Brazil and Singapore. The company's increasing reputation in recent years has been instrumental in attracting talented engineers from across the world. Being united by our passion for technology, our diversity is our strength, as it allows the creative blending of different kinds of knowledge, perspectives and ways of thinking.



Facts About Espressif



8

R&D centers 76%

R&D employees **561**

employees

30

employee nationalities 33%

female employees



GitHub

70 K+

open-source, Espressif-powered projects 2.6 M+



views of the most popular videos of Espressif-powered projects

YouTube



Book

100+



books written about Espressifs SoCs in 10+ languages 52.7 K+

members of ESP32 groups



Reddit

Business Highlights

Key Financial Data (Unaudited)

	Three Mont	hs Ended	Six Month	s Ended
CNY	Jun 30, 2022	Jun 30, 2021	Jun 30, 2022	Jun 30, 202
Consolidated Statement of Income Data				
Revenue	324,870,817	360,089,198	613,818,881	630,602,84
Gross profit	128,253,838	148,023,173	246,843,778	256,242,99
Selling expenses	10,384,806	11,525,644	19,579,687	21,315,03
General and administrative expenses	13,548,558	12,413,908	26,953,099	24,616,79
Research and development expenses	77,606,270	60,198,663	152,454,559	119,089,08
Net income	35,423,132	67,521,465	63,275,224	101,520,84
Earnings per share:				
Basic			0.7880	1.268
Diluted			0.7880	1.268
			Jun 30, 2022	Dec 31, 202
Consolidated Balance Sheet Data			075 500 054	4 4 4 5 5 0 0 0
Cash, cash equivalent and investments			875,538,054	1,114,558,36
Working capital			1,715,463,451	1,749,605,27
Total assets			2,071,369,036	2,129,056,14
Long-term obligations			65,073,593	68,244,39
Total shareholders' equity			1,808,863,075	1,823,017,91
	Three Mont	hs Ended	Six Month	s Ended
	June 30, 2022	June 30, 2021	June 30, 2022	June 30, 202
Consolidated Cash Flow Data				
Net cash flow from operating activities	7,345,663	950,232	-29,524,843	-12,548,26
Non-GAAP Adjustment				
Stock-based compensation	638,729	3,431,064	5,463,737	8,855,02
Non-GAAP net income	36,061,861	70,952,529	68,738,961	110,375,86

Key Financial Indicators (Unaudited)

	Three Monti	Three Months Ended		Six Months Ended	
	Jun 30, 2022	Jun 30, 2021	Jun 30, 2022	Jun 30, 2021	
Gross margin	39.48%	41.11%	40.21%	40.63%	
R&D-to-sales ratio	23.89%	16.72%	24.84%	18.88%	
EBITDA margin	12.26%	21.73%	11.98%	18.49%	
Weighted ROE			3.46%	6.05%	

Key Announcements



New SoCs

ESP32-C2

a small, simple and cheap combo Wi-Fi 4 + Bluetooth 5 (LE) SoC in a 4mm x 4mm package, with 272 kB of memory and robust connectivity

ESP32-C5

the industry's first RISC-V SoC solution that supports 2.4 and 5 GHz dual-band Wi-Fi 6, along with Bluetooth 5 (LE)



Security

ESP Privilege Separation

"User vs Kernel" separation is achieved by using the World controller and Permission Controller, and by splitting the firmware image into two separate and independent binaries: protected and user applications. This makes the end application-development easier, without any inadvertent changes to the system.



Al

Espressif's 3A Audio Algorithms

including Acoustic Echo Cancelation (AEC), Audio Noise Suppression (ANS) and Automatic Gain Control (AGC), which significantly reduce noise and echo in calls, keeping high-quality voice intercoms stable at all times.



Cloud

ESP RainMaker

Upgraded to a one-stop, development-free and maintenance-free AloT solution for private Cloud deployment.

It is a comprehensive solution that covers everything from the underlying chip to device firmware, third-party voice-assistant integrations, mobile apps and the dashboard.

Customers can build their own AloT devices and ecosystem, with ESP RainMaker.





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Matter

ESP-IDF

Espressif's own IoT Development Framework, including RTOS, has been upgraded to v5.0 and has won 8.9K stars on GitHub.

Zephyr

We keep updating our support for Zephyr, with Low-Power Modes, Wi-Fi Manager, Asymmetric Multiprocessing (AMP) and peripheral support.

ESP-ID.

Fi 6 The security

One-stop Matter Solution

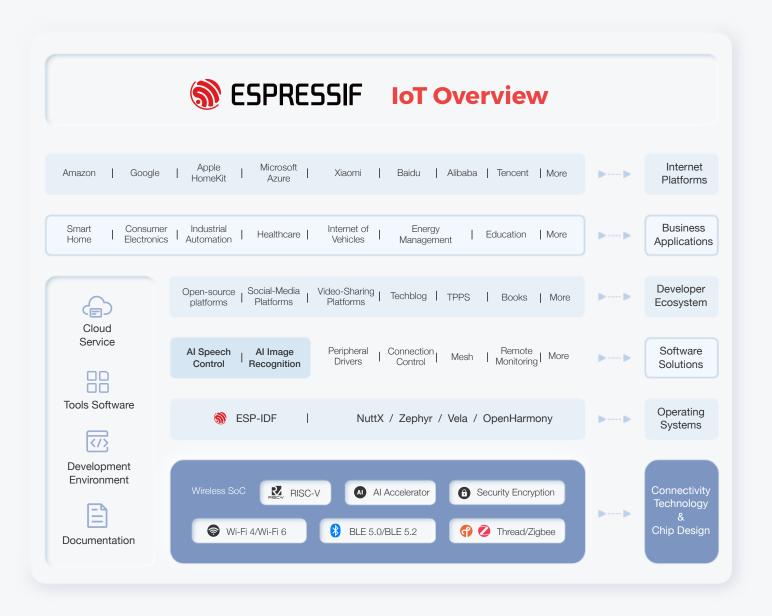
This is the culmination of Espressif's ongoing contribution to the Matter platform in various areas, including protocol formulation, core stack implementation and certification test events.

Management Report

Business Strategy

Espressif Systems' business strategy emanates from our four key capabilities and our four key service/product areas. More specifically, our four key capabilities include Espressif's connectivity and chip design, OS-level development, software solutions, and our engagement with our ecosystem.

Our four key service and product areas include our development environment, software tools, cloud services, and detailed documentation support. The above-mentioned structure ensures that our products are the heart of numerous commercial AloT applications in different markets, including smart home, consumer electronics, industrial automation, healthcare, etc.



Key Products - IoT Chips

Espressif is recognized as a market leader in the field of Wi-Fi MCUs. We released our first Wi-Fi MCU in 2014, and our first Wi-Fi/Bluetooth LE combo chip in 2016. In 2020, we successfully developed our own RISC-V MCU core, adding it to our products, while in 2021, we released our first Thread/Zigbee/Bluetooth LE 5 combo chip and a 2.4GHz Wi-Fi 6 chip. In 2022, we released our first 2.4 & 5GHz Wi-Fi 6 chip.

In fact, we have been constantly diversifying our product portfolio, introducing new solutions through our numerous investments. Thus, we now have various product lines in all the main short-range connectivity technologies.

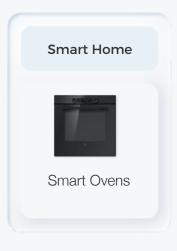


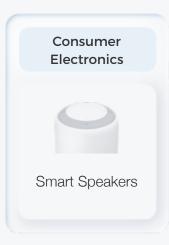
We also provide IoT modules based on our chips. The benefit for customers is that they can get direct support from us, shortening and optimizing their supply chain, even in case of chip shortages.

Applications

We sell our own IoT chips and modules, enabling the connectivity between various products, ranging from simple devices -such as smart light bulbs- to complicated ones, such as robots. Our core connectivity chips are Wi-Fi MCUs and Wi-Fi /Bluetooth LE (BLE) combo MCUs, which accounted for 99.4% of our revenue in H1 2022.

The market for Wi-Fi MCUs or Wi-Fi/BLE combo MCUs is truly diverse, including applications for smart homes (e.g., smart lights, air conditioners, ovens, coffee machines, etc.), consumer electronics (e.g., smart speakers, drones, etc.), industrial automation (e.g., mechanical arms), healthcare (e.g., monitoring devices for diabetes, blood pressure, COVID-19, etc.), energy control (solar energy devices, EV chargers, etc.), the internet of vehicles (OBD devices, dash boards, etc.), education (talking pens, interactive white boards, etc.) and others, such as robots, wireless POS, and asset trackers.



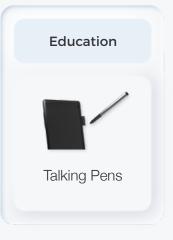














Core Competitiveness



Espressif's competitiveness stems from our previously-referred to "four key capabilities and four key service/product areas". In fact, this substantiates our business philosophy, which helps us make a difference on the market in terms of the chips, operating systems and software solutions that we offer, within our vibrant ecosystem.

Chip Competitiveness

Espressif takes pride in the invaluable experience that our R&D team leaders have in the field of wireless-communication chips. Additionally, Espressif's founder and CEO, Mr Teo Swee-Ann, has over 20 years of experience in the semiconductor industry, having also registered over 40 IC and IoT-related patents under his name.

After the huge success of our initial series of Wi-Fi MCUs, our company expanded to other wireless-connectivity technologies, including Bluetooth LE and Thread/Zigbee. This development has further enhanced our Company's high-tech offerings, thus increasing our market opportunities, while also keeping our customers spoiled for choice.

Our products are renowned for their high level of integration, small size, low power consumption, great computing power, large memory space and strong security mechanisms. Our products power nearly 800 million devices across the whole wide world. They are being used by independent developers and big companies alike, while Espressif is recognized as a leading force in the AloT chip industry.

System Competitiveness

ESP-IDF is Espressif's official IoT Development Framework for the ESP32, ESP32-S, ESP32-C and ESP32-H series of SoCs. It provides a self-sufficient SDK for any generic application development on the above-mentioned platforms, using programming languages such as C and C++. ESP-IDF currently powers millions of devices in the field, and enables building a variety of network-connected products, ranging from simple light bulbs and toys to big appliances and industrial devices.

ESP-IDF has established a fastidious release process, and a support policy which ensures that customers can choose a stable release, while also getting important updates. Each stable release undergoes a rigorous QA process that ensures production readiness at all times. Also, ESP-IDF comes with an extensive documentation for its software components not only at the usage level but also at the design level. This helps developers to fully understand what ESP-IDF offers, and select whatever suits their applications best.

Furthermore, ESP-IDF supports a large number of software components, including RTOS, peripheral drivers, network stacks, protocol implementations, and examples of common application use-cases. These components help developers to focus on their business logic, while the SDK provides most of the building blocks required for typical applications. Open-source and freely-available developer tools, as well as officially supported Eclipse and VSCode IDEs, ensure ease-of-use for developers.

Software Competitiveness

The company provides numerous software solutions, including Al-related ones (e.g., offline/online voice recognition and smart control, Al image recognition, etc.), Wi-Fi Mesh, BLE Mesh, touch functions, various peripheral drivers and other functions covering all the development needs of our customers. These solutions greatly reduce the cost of customer application development.

Espressif's Al Lab has developed Audio Front-End (AFE) algorithms that have been qualified as a "Software Audio Front-End Solution" to Amazon-Alexa Built-in devices. This is the result of Espressif's incessant focus not just on the connectivity of its own AloT solutions, but also on high-performance Machine Learning on the edge. Furthermore, in 2022 our Al Lab launched the so-called 3A Audio Algorithms, i.e., Acoustic Echo Cancelation (AEC), Audio Noise Suppression (ANS), and Automatic Gain Control (AGC). Based on Espressif's 3A audio algorithms, Espressif-powered Real-Time Communication applications benefit from significantly reduced noise and echo in calls, and sustained stability in high-quality voice intercoms.

Our newly-launched, one-stop Matter solution, including the fully-customized ESP-Matter SDK and Cloud services, can simplify and accelerate the development process of Matter-compatible products significantly. This is the culmination of our ongoing contribution to the Matter platform in various areas, including protocol formulation, core stack implementation and certification test events.

Furthermore, ESP RainMaker® is a one-stop, development-free and maintenance-free AloT solution for private Cloud deployment, which reduces R&D costs and accelerates time-to-market. More specifically, this is a complete system for building AloT products with a minimal amount of code, which enables our customers to deploy and develop secure, customized AloT solutions. It covers all of Espressif's chips and modules, device firmware, voice-assistant integrations, phone apps and Cloud backend. This helps our customers avoid expensive investments in Cloud capabilities, gain independence and focus on innovating their core-value offerings.

Ecosystem Competitiveness

Our company has brought together professionals and companies from across the AloT industry, e.g., hardware and software developers, business applications, and Cloud platforms, as well as maker communities. Espressif's own software development platforms and the accompanying documentation are entirely open-source, thus making our innovative products available to people from all walks of life.

As a result, thousands of third-party projects have been based on Espressif's technologies. For example, on GitHub, which is the largest provider of Internet hosting for software development, there are more than 70,000 open-source projects based on Espressif's IoT chips. Furthermore, the popularity of our products has stimulated an increasing number of authors who have produced teaching resources based on Espressif chipsets in several languages including English, Chinese, German, Portuguese, Japanese, and Serbo-Croatian. At present, there are more than 100 digital and physical books about Espressif's SoCs in more than ten languages.

Ecosystem Competitiveness (continued)

Developer community contents

ITEM	Jun 30, 2022	Dec 31, 2021	change%
GitHub (Worldwide open-source development platform)			
ESP32 Projects	35,163	29,007	21%
ESP8266 Projects	37,236	35,055	6%
Gitee (Chinese open-source development platform)			
ESP32 Projects	2,783	2,592	7%
ESP8266 Projects	1,944	1,867	4%
CSDN (Chinese Tech-blog platform)			
Search results for ESP32	85,654	79,188	8%
Search results for ESP8266	32,061	30,033	7%
Hackaday (open-source hardware platform)			
ESP32 projects	4,253	3,816	11%
ESP8266 projects	5,933	5,789	2%
Reddit			
ESP32 group members	52,677	46,540	13%
ESP8266 group members	56,344	53,523	5%
bilibili (Chinese video-sharing platform)			
Official account followers	20,475	17,502	17%
Official account views	507,095	390,000	30%
YouTube			
Official account subscribers	12,300	11,600	6%
Official account views	611,322	556,846	10%
ESP32 community videos	553,592	466,459	19%
ESP8266 community videos	738,270	687,155	7%
Views of most watched ESP32 community video	around 2.6m	around 1.5m	
Views of most watched ESP8266 community video	around 1.5m	around 1.5m	

N.B.

Statistical data derived from different platforms may be based on different collecting methods. It is possible for certain platforms to modify their algorithms from time to time and, therefore, impact the resulting statistical data. The above-mentioned data resulted from the Company's research at the end of each quarter reported here, unless otherwise stated.

Business Model

Business-to-Developer-to-Business (B2D2B)

Espressif has deployed the Business-to-Developer type of marketing, not only because it has gained prominence in recent years, but also because it has proven to be more effective ever since the influence of developers on organizations of all sizes has gained traction. In other words, most developers are R&D employees in various companies and bring about business opportunities from the companies they work for.

This way, the developer ecosystem we have created at Espressif demonstrates how the value of networks can grow exponentially:

- The more developers we attract as customers, the more hardware and software solutions we generate.
- The more successful hardware and software solutions we create, the more our reputation spreads with positive feedback from happy customers/developers.
- The above-mentioned interaction between people in our network prompts the creation of more content, which -in turn- attracts more users/developers searching for new content.
- Likewise, other third-party development platforms join our ecosystem and bring in new developers, as our influence continues to grow.

Having successfully applied the B2D2B model, Espressif can now focus on R&D investments, while maintaining a small business team that supports a large number of customers directly. In fact, most of our revenue is gained through direct sales.

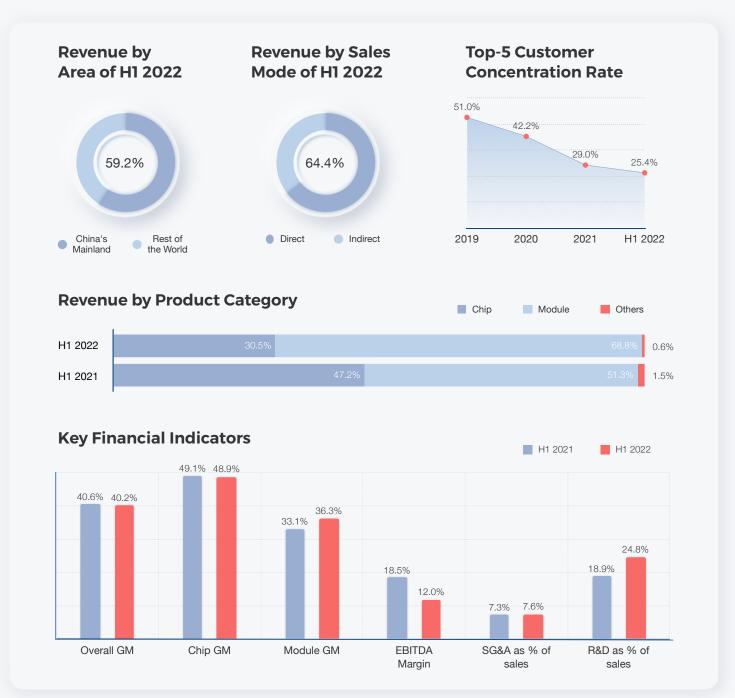


Financial Performance

Espressif's total revenue in the first half of the current fiscal year (2022) was CNY 613.82 million, marking a decrease of 2.66% from CNY 630.60 million of H1 2021, due to inflation-driven recession and the decline in consumer confidence. The ensuing net income was CNY 63.28 million, which marked a decrease of 37.67% year-on-year, due to our increased R&D expenditure.

The overall gross margin was 40.21%, in which the IoT chip gross margin was 48.93%. The overall gross margin decreased due to the increased proportion of module sales.

The customers in China's mainland prefer purchasing chips while the customers from the rest of the world prefer modules. We keep the chip margin to a reasonable level, in order to support our future R&D expenditure. The module margin fluctuates, depending on its memory capacity. Overall, the gross profit of a module is higher than that of a chip.



Research and Development

R&D Investment

R&D investment is at the heart of Espressif Systems' development. During the reporting period, R&D cost CNY 152.45 million, which marked a 28.02% increase compared with that of 2021. At the same time, the R&D-to-sales ratio was 24.84% in the first half of this fiscal year (2022).

Espressif's escalating R&D investment cost can be attributed to the increase in the number of R&D staff and their subsequent compensation level, which increased significantly year-over-year.

	Six Months En	ided	
CNY	June 30, 2022	June 30, 2021	change (%)
R&D Expenses	152,454,559	119,089,089	28.02
R&D-to-sales ratio	24.84%	18.88%	

Intellectual Property

We seek to protect our technologies through a combination of patents, software copyright and trade secrets. By the end of June 2022, the Company had been granted 129 patents. We continue to submit new patent applications relating to our recent R&D innovations.



List of Intellectual Property Rights Applied and Granted

	H1 2022		Cumulative num	tive number		
	Applied for	Granted	Applied for	Granted		
Invention patents	5	4	116	66		
Utility model patents	0	0	26	26		
Design patents	0	0	1	1		
Software copyright	0	0	19	19		
Others	3	6	51	17		
Total	8	10	213	129		

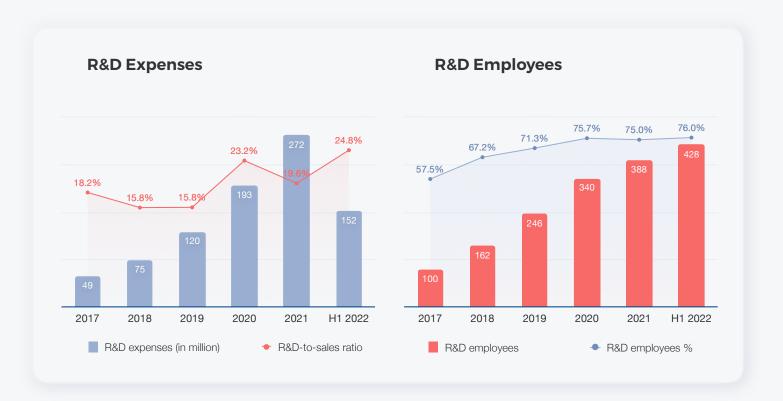
N.B.: The number of patents that have been "applied for" does not include the rejected applications in China, or the PCT patent applications not submitted to any particular country, or any patent applications beyond the reporting period. The number of "granted" patents includes those with expired IP rights. The category of "others" includes overseas (non-Chinese) patent applications, i.e. the PCT patent applications, U.S. patent applications through the PCT route or the Paris Convention route, as well as patent applications in India.

R&D Employees

We are proud of our talented, diverse and multicultural workforce. By June 30, 2022, across our eight branches worldwide, we had employed 561 people, more than 76% of whom are in engineering roles. Meanwhile, we have expanded our business beyond Wi-Fi MCUs, thus offering innovative solutions to wireless connectivity and processing, including AI, RISC-V MCU, Wi-Fi 6, Bluetooth LE, Thread, Zigbee and other IoT-related technologies.

Since the research and development of software and hardware are inextricably intertwined, we constantly invest in software technology, too. Hence, we are currently focused on AloT technologies, including toolchains, compilers, operating systems, application frameworks, Al algorithms, Cloud products, apps, etc. Our aim is to make Espressif a one-stop solution-provider offering anything relating to hardware, software and the Cloud.

	Six Months Ended	
	June 30, 2022	June 30, 202
R&D employees	428	349
R&D employees as a percentage of total employees	76.29%	75.38%
Total compensation of R&D employees (CNY in thousands)	123,837	86,790
Average compensation of R&D employees (CNY in thousands)	304	252



Ownership of Securities

Basic information of securities

Share types	Ordinary share	
Share capital	80,451,785 (as of June 30, 2022)	
Listing	Shanghai Stock Exchange (SSE)	
Ticker	688018.SH	
Listing Date	2019-07-22	

Shareholder Structure as of Jun 30, 2022

Shareholder	Share Numbers	Percentage (%)
Espressif (Hong Kong) Investment Ltd.	34,860,000	43.33
Shinvest Holding Ltd.	2,804,446	3.49
Yadong Beichen Investment Management Co., Ltd.	2,518,484	3.13
Dajia Life Insurance Co., Ltd. – Universal Products	1,904,614	2.37
BOC - Franklin Templeton Sealand Fund	1,542,789	1.92
Ningbo Meishan Free Trade Port Le Tun Investment Management Partnership (Limited Partnership)	1,046,030	1.30
BOC - Cathay Pacific CES Semiconductor Chip ETF	973,057	1.21
UBS AG	786,314	0.98
China Resources SZITIC Trust - Broadvision Selection II	725,500	0.90
ABC - Franklin Templeton Sealand Fund	694,416	0.86
Top 10 shareholders	47,855,650	59.48
Other public shareholders	32,596,135	40.52
Total of outstanding shares	80,451,785	100.00

Stock-Based Compensation

Espressif has four ongoing restricted stock incentive plans. The fair value of the restricted stock incentive plans is estimated using the Black-Scholes model. The following table presents details of stock-based compensation costs acknowledged in the Consolidated Statements of Income.

Restricted Stock Incentive Plans

Plan	Award Type	Number of Underlying Shares	Ratio of Underlying Shares (%)*	Grant Price (CNY)
2019 restricted stock incentive plan	Class II restricted stock	205,900	0.2559	63.625
2020 restricted stock incentive plan	Class II restricted stock	226,737	0.2818	93.625
2021 restricted stock incentive plan	Class II restricted stock	1,050,367	1.3056	94.500
2022 restricted stock incentive plan	Class II restricted stock	1,187,168	1.4756	120.000

N.B.: The above-mentioned numbers were calculated on June 30, 2022.

Stock-Based Compensation

	Six Months End	ed
CNY	June 30, 2022	June 30, 2021
Selling expenses	290,063	360,788
G&A expenses	732,517	584,924
R&D expenses	4,441,157	7,909,313
Total stock-based compensation	5,463,737	8,855,024

Risks and Uncertainties



Financial Risk

The Company performs periodic credit evaluations of its customers' financial condition and generally requires of its customers no collateral. The Company provides an allowance for expected credit losses, based on the net amount expected to be collected on such receivables. Losses have not been significant for any of the periods presented.



R&D Risk

Espressif's research and development strategy is focused on leveraging new technologies for the creation of innovative AloT products. Any delays or changes in the development of these technologies by our industry partners, or a failure of our products to achieve market acceptance, could compromise our competitive position.



Competitors

As the market for AloT products grows, we face an increasing antagonism from relatively large competitors, such as Realtek, MediaTek, Infineon, NXP, Qualcomm and others. Intense competition from current players, as well as new entrants, may reduce our product sales and market share.



Suppliers

A significant portion of the Company's products is fabricated by the Taiwan Semiconductor Manufacturing Co. (TSMC). The inability of TSMC to deliver wafers to the Company in a timely manner could impact the production of the Company's products for a certain period of time, which could have an adverse effect on the Company's business, financial condition, results of operations and cash flow.



Customers

The Company sells directly to end customers, distributors, solution providers and contract manufacturers. Our customers are a mix of several big customers and numerous small customers. The concentration ratio for our top-five customers was 25.4% in H1 2022, and it has been shrinking over the years. None of the customers accounted for yielded more than 10% of our revenue during the first half of the current fiscal year (2022).

Consolidated Financial Statements

(Unaudited)

Consolidated Balance Sheet (Unaudited)

CNY	June 30, 2022	December 31, 202
Assets		
Current assets:		
Cash and bank balances	332,556,835	367,149,07
Transactions of monetary assets	542,981,219	747,409,28
Notes receivable	10,538,475	11,600,17
Accounts receivable, net	252,174,094	306,823,75
Prepayments	11,554,962	8,172,70
Other receivables	9,789,757	9,519,86
Including: Interest receivable	1,322,727	298,79
Inventories	432,648,894	326,168,92
Other current assets	320,651,584	210,555,31
Total current assets	1,912,895,820	1,987,399,11
Non-current assets:		
Investment in other equity assets	56,667,840	56,600,70
Fixed assets	53,130,767	46,176,36
Construction work in progress		
Right-of-use assets	18,411,690	21,731,12
Intangible assets	2,801,826	3,191,33
Long-term deferred expenses	6,342,424	7,582,63
Deferred income tax assets	21,118,669	6,374,87
Total assets	2,071,369,036	2,129,056,14

Consolidated Balance Sheet (Unaudited)

CNY	June 30, 2022	December 31, 202
Liabilities & Shareholders' Equity		
Current liabilities:		
Accounts payable	111,207,564	138,572,19
Contract liabilities	14,343,999	17,184,19
Payroll payable	46,496,917	66,168,76
Taxes payable	6,627,505	6,472,49
Other payable	6,796,735	754,26
Non-current liabilities due within one year	11,959,649	8,641,92
Total current liabilities	197,432,369	237,793,83
Non-current liabilities:		
Lease liabilities	9,324,447	12,116,03
Deferred income tax liabilities	55,749,146	56,128,35
Total liabilities	262,505,962	306,038,23
Owners' equity (or shareholders' equity):		
Share capital	80,451,785	80,158,96
Capital reserves	1,298,215,288	1,266,771,03
Other comprehensive income	3,844,139	-15,711,57
Surplus reserves	33,462,951	33,462,95
Retained earnings	392,888,912	458,336,54
Total shareholders' equity	1,808,863,075	1,823,017,9 ⁻
Total liabilities and shareholders' equity	2,071,369,036	2,129,056,14

Consolidated Income Statement (Unaudited)

	Three Mont	hs Ended	Six Month	s Ended
CNY	June 30, 2022	June 30, 2021	June 30, 2022	June 30, 2021
Revenue	324,870,817	360,089,198	613,818,881	630,602,843
Cost of Revenue	196,616,979	212,066,024	366,975,103	374,359,853
Gross Profit	128,253,838	148,023,173	246,843,778	256,242,990
Taxes and surcharges	1,228,517	1,184,223	1,746,949	1,853,747
Selling expenses	10,384,806	11,525,644	19,579,687	21,315,037
General and administrative expenses	13,548,558	12,413,908	26,953,099	24,616,796
Research and development expenses	77,606,270	60,198,663	152,454,559	119,089,089
Financial expenses	2,698,487	-29,279	3,266,513	-1,113,412
Including: Interest expenses	184,381		397,063	
Interest income	841,974	1,286,958	1,538,621	2,343,528
Add: Other income	2,979,722	2,051,591	3,232,469	2,262,750
Investment income (mark"-" for loss)	7,305,074	6,082,213	10,485,662	9,907,135
Income from changes in fair value (mark"-" for loss)	-1,095,022	-481,964	1,981,219	1,239,367
Credit impairment losses (mark"-" for loss)	-3,115	-879	-3,115	7,652
Assets impairment losses (mark"-" for loss)	6,989	1,872,458	-405,282	1,686,228
Assets disposal income (mark"-" for loss)				
Operating Income	31,980,849	72,253,432	58,133,924	105,584,865
Add: Non-operating revenue		15,893		15,893
Less: Non-operating expenses	33,405	13,880 	33,405	37,350
Income before income taxes	31,947,444	72,255,444	58,100,519	105,563,408
Provision (benefit) for income taxes	-3,475,688	4,733,979	-5,174,706	4,042,568
Net Income	35,423,132	67,521,465	63,275,224	101,520,840
Earnings per share				
Basic			0.7880	1.2681
Diluted			0.7880	1.2681
	Three Mont	hs Ended	Six Month	s Ended
CNY	June 30, 2022	June 30, 2021	June 30, 2022	June 30, 202
Net Income	05 400 400	07.504.405	00.075.004	101 500 01
Net Income Other comprehensive income (loss), after tax	35,423,132	67,521,465	63,275,224	101,520,84
Changes to the fair value of investment in other equity instruments	72,640	-22,240	67,140	-12,96
Currency translation reserves	21,128,298	-6,253,823	19,488,578	-3,484,19
Other comprehensive income (loss)	21,200,938	-6,276,063	19,555,718	-3,497,15
Comprehensive income	56,624,070	61,245,402	82,830,942	98,023,690
Completions income		01,240,402	02,000,342	

Consolidated Cash Flow Statement (Unaudited)

Chem		Three Month	s Ended	Six Months	Ended
Cach remarks of merchandise and provision of services services \$23,433,838 \$83,424,841 \$716,230,416 \$69,726,511 \$250,000 \$23,407,811 \$24,000 \$23,407,811 \$24,000 \$23,407,811 \$24,000 \$23,407,811 \$24,000 \$24,0	CNY	June 30, 2022	June 30, 2021	June 30, 2022	June 30, 2021
Services Tax refund Geo., 261 8,768,266 27,342,835 23,494,781 Other received cash related to operational activities 3,506,621 3,085,208 12,785,208 4,628,112 Subtoal of cash inflow from operational activities 327,566,5621 375,286,055 756,886,259 687,850,205 Cash paid for merchandise and services 220,744,919 286,440,570 556,762,874 500,080,038 Cash paid for machandise and services 83,047,148 35,891,509 170,768,768 122,803,344 Cash paid for traxes and surcharges 18,347,307 24,005,161 25,286,124 30,550,639 Other paid cash related to operational activities 18,347,307 24,005,161 25,286,124 30,550,639 Other paid cash related to operational activities 320,220,888 374,335,823 786,893,102 70,298,473 Subtotal of cash outflow from operational activities 320,220,888 374,335,823 786,893,102 70,298,473 Investing activities 7,345,603 850,323 2,29,324,843 -12,548,266 Investing activities 2,345,603 850,323 2,29,324,843 -12,548,266 Investing activities 2,345,603 850,323 1,641,103,857 1,694,207,598 Cash paid for the disposal of investments 807,335,414 825,852,213 1,641,103,857 1,694,207,598 Cash paid for minimental from the disposal of fixed assets, intengible assets and other long-term assets 5,510 Chief merceived cash relating to investment activities 808,801,281 835,802,213 1,643,997,307 1,094,213,108 Subtotal of cash inflow from investment activities 808,801,281 835,802,213 1,643,997,307 1,094,213,108 Cash paid for the purchase and construction of fixed assets, intengible assets and other long-term assets 7,805,972 7,805,835 1,536,862 1,827,255,904 Net cash used by investment activities 788,759,972 7,805,835 1,536,405,24 1,827,225,904 Net cash used by investment activities 788,759,972 7,805,835 1,536,862,84 8,886,097 28,273,338 6,485,097 Prancing activities 789,703 6,485,997 28,273,338 6,485,0	Operating Activities				
Cash paid for merchandise and services 3,506,621 3,752,86,055 756,988,259 687,850,205		323,433,638	363,424,641	716,230,416	659,726,312
Subtotal of cash inflow from operational activities 327,568,521 375,286,055 766,986,289 667,850,205	Tax refund	626,261	8,766,206	27,942,635	23,494,781
Cash paid for merchandise and services 220,744,819 285,440,570 556,762,874 500,090,038 Cash paid to and for employees 63,047,148 35,691,509 170,766,766 125,403,344 Cash paid for taxes and surchurges 18,477,307 24,605,161 25,286,124 30,550,839 Other paid cash related to operational activities 320,220,858 37,335,823 786,843,102 700,398,472 Net cash provided by operating activities 7,345,663 950,232 -29,524,843 -12,648,266 Investing activities 807,335,414 835,852,213 1,641,103,857 1,694,207,598 Cash arising from investment income 1,465,887 2,893,450 2,893,450 5,510 Net cash inflow from investment activities 808,801,281 835,852,213 1,641,103,877 1,694,207,598 Subtotal of cash inflow from investment activities 808,801,281 835,852,213 1,643,997,307 1,694,207,598 Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 2,753,972 7,655,385 15,380,624 12,655,904 Cash paid for the purchase and construction of fixed assets, intangi	Other received cash related to operational activities	3,506,621	3,095,208	12,795,208	4,629,112
Cash paid to and for employees 63,047,148 35,891,508 170,766,766 125,403,344 Cash paid for taxes and surcharges 18,347,307 24,605,161 29,286,124 30,550,039 Other paid cash related to operational activities 18,081,438 26,598,582 376,7733 44,345,449 Subtotal of cash outflow from operational activities 7,345,663 950,232 29,524,843 -12,548,266 Investing activities 807,335,414 835,852,213 1,641,103,857 1,694,207,598 Cash arising from the disposal of investments 807,335,414 835,852,213 1,641,103,857 1,694,207,598 Net cash arising from the disposal of fixed assets, inflamptible assets and other forn-term assets 1,465,867 2,833,450 5,510 Subtotal of cash inflow from investment activities 808,801,281 835,852,213 1,643,997,307 1,694,213,108 Cash paid for the purchase and construction of fixed assets, including assets and other forn-term assets 7,765,385 15,360,524 12,555,904 Cash paid for investments 783,000,000 705,000,000 1,538,100,000 1,614,770,000 Other paid cash relating to investment activities	Subtotal of cash inflow from operational activities	327,566,521	375,286,055	756,968,259	687,850,205
Cash paid for taxes and surcharges 18,347,307 24,605,161 25,286,124 30,550,639 Other paid cash related to operational activities 18,081,483 28,598,583 33,677,338 44,354,449 Subtotal of cash outflow from operational activities 320,220,888 374,335,823 786,498,102 700,398,472 Net cash provided by operating activities 7,345,663 950,232 -29,524,843 -12,548,266 Investing activities Cash arising from the disposal of investments 807,335,414 835,852,213 1,641,103,857 1,694,207,598 Cash arising from the disposal of fixed assets, intangible asset and other long-term assets 1,465,867 2,893,450 5,510 Other received cash relating to investment activities 808,801,281 835,852,213 1,643,997,307 1,694,213,108 Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 2,753,972 7,655,385 15,380,524 12,555,904 Cash paid for investment activities 783,000,000 705,000,000 1,581,100,000 1,614,770,000 Other paid cash relating to investment activities 785,759,972 712,655,385 1,553,460,524	Cash paid for merchandise and services	220,744,919	285,440,570	556,762,874	500,090,038
Other paid cash related to operational activities 18,081,483 28,598,583 33,677,338 44,354,449 Subtotal of cash outflow from operational activities 320,220,858 374,335,823 788,493,102 700,398,472 Net cash provided by operating activities 7,345,663 950,232 -29,524,843 -12,548,266 Investing activities 807,335,414 835,852,213 1,641,103,857 1,694,207,598 Cash arising from the disposal of fixed assets, intangible assets and other forgeterm assets 1,465,867 2,833,450 5,510 Chier received cash relating to investment activities 808,801,281 835,852,213 1,644,103,867 1,694,207,598 Subtotal of cash inflow from investment activities 808,801,281 835,852,213 1,643,997,307 1,694,213,108 Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 2,753,972 7,655,385 15,380,524 12,555,904 Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 783,000,000 705,000,000 1,538,100,000 1,614,770,000 Cash paid for investment activities 785,753,972 712,655,385 1,533,4	Cash paid to and for employees	63,047,148	35,691,509	170,766,766	125,403,344
Subtotal of cash outflow from operational activities 320,220,858 374,335,823 786,493,102 770,398,472 Net cash provided by operating activities 7,345,663 950,232 -29,524,843 -12,548,266 Investing activities Substitution	Cash paid for taxes and surcharges	18,347,307	24,605,161	25,286,124	30,550,639
Net cash provided by operating activities	Other paid cash related to operational activities	18,081,483	28,598,583	33,677,338	44,354,449
Investing activities	Subtotal of cash outflow from operational activities	320,220,858	374,335,823	786,493,102	700,398,472
Cash arising from the disposal of investments 807,335,414 835,852,213 1,641,103,857 1,694,207,598 Cash arising from investment income 1,465,867 2,893,450 1,694,207,598 Net cash arising from the disposal of fixed assets, intangible assets and other long-term assets 5,510 5,510 Subtotal of cash inflow from investment activities 808,801,281 835,852,213 1,643,997,307 1,694,213,108 Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 2,753,972 7,655,385 15,360,524 12,555,904 Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 783,000,000 705,000,000 1,538,100,000 1,614,770,000 Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 7,83,000,000 705,000,000 1,538,100,000 1,614,770,000 Cash paid for the purchase and construction of dividence and profits paid to minority investment activities 7,857,392 712,855,385 1,553,460,524 1,627,325,904 Net cash used by investment activities 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits	Net cash provided by operating activities	7,345,663	950,232	-29,524,843	-12,548,266
Cash arising from the disposal of fixed assets, intangible assets and other long-term assets and oth	Investing activities				
Net cash arising from the disposal of fixed assets, intangible assets and other long-term assets Subtotal of cash inflow from investment activities Souther case) Subtotal of cash inflow from investment activities Souther case) Subtotal of cash inflow from investment activities Souther case) 2,753,972 7,655,385 15,360,524 12,555,904 Intangible assets and other long-term assets 2,753,972 7,655,385 15,360,524 12,555,904 Intangible assets and other long-term assets 783,000,000 705,000,000 1,538,100,000 1,614,770,000 Other paid cash relating to investments 785,753,972 712,655,385 1,553,460,524 1,627,325,904 Net cash used by investment activities 23,047,309 123,196,828 90,536,784 66,887,204 Subtotal of cash outflow from investment activities 23,047,309 123,196,828 90,536,784 66,887,204 Subtotal of cash inflow from subsidiaries absorbing investments by minority shareholders 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash outflow from financing activities 767,795 3,126,415 2,004,407 5,082,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,49 130,727,263 45,077,692 Subtotal of cash outflow from financing activities 129,490,651 10,398,49 130,727,263 45,077,692 Subtotal of cash outflow from financing activities 129,490,651 10,398,49 130,727,263 45,077,692 Subtotal of cash outflow from financing activities 129,490,651 10,398,49 130,727,263 45,077,692 Subtotal of c	Cash arising from the disposal of investments	807,335,414	835,852,213	1,641,103,857	1,694,207,598
Assets and other long-term assets Other received cash relating to investment activities Subtotal of cash inflow from investment activities Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets Cash paid for investments Cash paid for investments Cash paid for investments Cash paid for investments Cother paid cash relating to investment activities Subtotal of cash outflow from investment activities Subtotal of cash outflow from investment activities Cash arising from the issuance of common stock Cash arising from the issuance of common stock Cash arising from the issuance of common stock Including: Cash arising from subsidiaries absorbing investments by minority shareholders Subtotal of cash inflow from financing activities Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries Including: dividends and profits paid to minority shareholders by subsidiaries Other paid cash relating to financing activities 767,795 3,126,415 2,004,407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 -367,142,726 503,239,843 -367,142,726 -367,329,843	Cash arising from investment income	1,465,867		2,893,450	
Subtotal of cash inflow from investment activities 808,801,281 835,852,213 1,643,997,307 1,694,213,108 Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 2,753,972 7,655,385 15,360,524 12,555,904 Cash paid for investments 783,000,000 705,000,000 1,538,100,000 1,614,770,000 Other paid cash relating to investment activities 785,753,972 712,655,385 1,553,460,524 1,627,325,904 Net cash used by investment activities 23,047,309 123,196,828 90,536,784 66,887,204 Financing activities Cash arising from the issuance of common stock 5,957,003 6,485,097 26,273,338 6,485,097 Including: Cash arising from subsidiaries absorbing investments by minority shareholders 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash paid for the distribution of dividends and profits, or payment of interests 1,287,22,856 7,272,435 128,722,856 40,015,250 Subtotal of cash paid for the distribution of dividends and profits paid to minority 128,722,856 7,272,435 128,722,856 40,015,250 Subtotal of cash					5,510
Cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets 2,753,972 7,655,385 15,360,524 12,555,904 Cash paid for investments 783,000,000 705,000,000 1,538,100,000 1,614,770,000 Other paid cash relating to investment activities 785,753,972 712,655,385 1,553,460,524 1,627,325,904 Net cash used by investment activities 23,047,309 123,196,828 90,536,784 66,887,204 Financing activities Cash arising from the issuance of common stock 5,957,003 6,485,097 26,273,338 6,485,097 Including: Cash arising from subsidiaries absorbing investments by minority shareholders 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries 128,722,856 7,272,435 128,722,856 40,015,250 Other paid cash relating to financing activities 767,795 3,126,415 2,004,407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692	·				
Cash paid for investments Cash paid for investment activities 783,000,000 705,000,000 1,538,100,000 1,614,770,000	Subtotal of cash inflow from investment activities	808,801,281 	835,852,213 	1,643,997,307	1,694,213,108
Other paid cash relating to investment activities 785,753,972 712,655,385 1,553,460,524 1,627,325,904 Net cash used by investment activities 23,047,309 123,196,828 90,536,784 66,887,204 Financing activities 23,047,309 123,196,828 90,536,784 66,887,204 Financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Cash arising from the issuance of common stock Including: Cash arising from subsidiaries absorbing investments by minority shareholders 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits, or payment of interests 10,220,003		2,753,972	7,655,385	15,360,524	12,555,904
Subtotal of cash outflow from investment activities 785,753,972 712,655,385 1,553,460,524 1,627,325,904 Net cash used by investment activities 23,047,309 123,196,828 90,536,784 66,887,204 Financing activities Cash arising from the issuance of common stock Including: Cash arising from subsidiaries absorbing investments by minority shareholders 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries 128,722,856 7,272,435 128,722,856 40,015,250 Other paid cash relating to financing activities 767,795 3,126,415 2,004,407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents -82,057,630 115,007,564 -34,585,891	Cash paid for investments	783,000,000	705,000,000	1,538,100,000	1,614,770,000
Net cash used by investment activities 23,047,309 123,196,828 90,536,784 66,887,204 Financing activities Cash arising from the issuance of common stock 5,957,003 6,485,097 26,273,338 6,485,097 Including: Cash arising from subsidiaries absorbing investments by minority shareholders 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries 128,722,856 7,272,435 128,722,856 40,015,250 Other paid cash relating to financing activities 767,795 3,126,415 2,004,407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents 11,083,046 -5,225,743 8,856,092 -2,178,014 equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period	Other paid cash relating to investment activities				
Financing activities Cash arising from the issuance of common stock 5,957,003 6,485,097 26,273,338 6,485,097 Including: Cash arising from subsidiaries absorbing investments by minority shareholders 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries 128,722,856 7,272,435 128,722,856 40,015,250 Other paid cash relating to financing activities 767,795 3,126,415 2,004,407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents 11,083,046 -5,225,743 8,856,092 -2,178,014 Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commence	Subtotal of cash outflow from investment activities	785,753,972	712,655,385	1,553,460,524	1,627,325,904
Cash arising from the issuance of common stock 5,957,003 6,485,097 26,273,338 6,485,097 Including: Cash arising from subsidiaries absorbing investments by minority shareholders 5,957,003 6,485,097 26,273,338 6,485,097 Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries 128,722,856 7,272,435 128,722,856 40,015,250 Other paid cash relating to financing activities 767,795 3,126,415 2,004,407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents 11,083,046 -5,225,743 8,856,092 -2,178,014 Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period 36	Net cash used by investment activities	23,047,309	123,196,828	90,536,784	66,887,204
Including: Cash arising from subsidiaries absorbing investments by minority shareholders Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries Other paid cash relating to financing activities 767,795 3,126,415 2,004,407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period	Financing activities				
Subtotal of cash inflow from financing activities 5,957,003 6,485,097 26,273,338 6,485,097 Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries 128,722,856 7,272,435 128,722,856 40,015,250 Other paid cash relating to financing activities 767,795 3,126,415 2,004,407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents 11,083,046 -5,225,743 8,856,092 -2,178,014 Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period 367,142,726 503,239,843	Cash arising from the issuance of common stock	5,957,003	6,485,097	26,273,338	6,485,097
Cash paid for the distribution of dividends and profits, or payment of interests Including: dividends and profits paid to minority shareholders by subsidiaries Other paid cash relating to financing activities 767,795 Subtotal of cash outflow from financing activities 129,490,651 Including: dividends and profits paid to minority shareholders by subsidiaries Other paid cash relating to financing activities 129,490,651 Including: dividends 120,4407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 Including: dividends 120,4407 5,062,442 Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents 11,083,046 -5,225,743 8,856,092 -2,178,014 equivalents Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period					
Description	Subtotal of cash inflow from financing activities	5,957,003	6,485,097	26,273,338	6,485,097
Shareholders by subsidiaries 125,725,630 127,163 125,725,630 165,725,630 175,725,630 175,725,630 175,725,630 175,725,743 8,856,092 -2,178,014 -2,178,014 -2,257,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period 503,239,843					
Subtotal of cash outflow from financing activities 129,490,651 10,398,849 130,727,263 45,077,692 Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents 11,083,046 -5,225,743 8,856,092 -2,178,014 Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period 367,142,726 503,239,843		128,722,856	7,272,435	128,722,856	40,015,250
Net cash used for financing activities -123,533,648 -3,913,752 -104,453,925 -38,592,595 Impact of fluctuation in exchange rates on cash and cash equivalents 11,083,046 -5,225,743 8,856,092 -2,178,014 Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period 367,142,726 503,239,843	Other paid cash relating to financing activities	767,795	3,126,415	2,004,407	5,062,442
Impact of fluctuation in exchange rates on cash and cash equivalents 11,083,046 -5,225,743 8,856,092 -2,178,014 Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period 367,142,726 503,239,843	Subtotal of cash outflow from financing activities	129,490,651	10,398,849	130,727,263	45,077,692
Net increase in cash and cash equivalents -82,057,630 115,007,564 -34,585,891 13,568,330 Add: Cash and cash equivalent at the commencement of the period 367,142,726 503,239,843	Net cash used for financing activities	-123,533,648	-3,913,752	-104,453,925	-38,592,595
Add: Cash and cash equivalent at the commencement 367,142,726 503,239,843 of the period		11,083,046	-5,225,743	8,856,092	-2,178,014
of the period	Net increase in cash and cash equivalents	-82,057,630	115,007,564	-34,585,891	13,568,330
Cash and cash equivalents at the end of the period -82,057,630 115,007,564 332,556,835 516,808,173				367,142,726	503,239,843
	Cash and cash equivalents at the end of the period	-82,057,630	115,007,564	332,556,835	516,808,173

Consolidated Statement of Changes in Equity (Unaudited)

CNY	Share capital	Capital reserves	Other comprehensive income	Surplus reserves	Retained earnings	Total equity
Balance as of December 31, 2021	80,158,963	1,266,771,034	-15,711,579	33,462,951	458,336,543	1,823,017,910
Comprehensive income, net of tax	(
Net Income					63,275,224	63,275,22
Other comprehensive income			19,555,718			19,555,71
Transactions with owners						
Capital increase	292,822	36,133,353				36,426,17
Stock-based compensation		-4,689,100				-4,689,10
Surplus reserves						
Dividends					-128,722,856	-128,722,85
Balance as of June 30, 2022	80,451,785	1,298,215,288	3,844,139	33,462,951	392,888,912	1,808,863,07
CNY	Share capital	Capital reserves	Other comprehensive income	Surplus reserves	Retained earnings	Total equit
<u>-</u>		•	comprehensive	-		
<u> </u>	capital 80,030,500	reserves	comprehensive income	reserves	earnings	
Balance as of December 31, 2020	capital 80,030,500	reserves	comprehensive income	reserves	earnings	1,641,130,35
Balance as of December 31, 2020 Comprehensive income, net of tax	capital 80,030,500	reserves	comprehensive income	reserves	earnings 317,958,872	1,641,130,35
Net Income	capital 80,030,500	reserves	comprehensive income -7,401,076	reserves	earnings 317,958,872	Total equit 1,641,130,35 101,520,84 -3,497,15
Balance as of December 31, 2020 Comprehensive income, net of tax Net Income Other comprehensive income	capital 80,030,500	reserves	comprehensive income -7,401,076	reserves	earnings 317,958,872	1,641,130,35
Balance as of December 31, 2020 Comprehensive income, net of tax Net Income Other comprehensive income Transactions with owners	80,030,500	1,235,113,896	comprehensive income -7,401,076	reserves	earnings 317,958,872	1,641,130,35 101,520,84 -3,497,15
Balance as of December 31, 2020 Comprehensive income, net of tax Net Income Other comprehensive income Transactions with owners Capital increase	80,030,500	1,235,113,896 13,716,093	comprehensive income -7,401,076	reserves	earnings 317,958,872	1,641,130,35 101,520,84 -3,497,15 13,798,56
Balance as of December 31, 2020 Comprehensive income, net of tax Net Income Other comprehensive income Transactions with owners Capital increase Stock-based compensation	80,030,500	1,235,113,896 13,716,093	comprehensive income -7,401,076	reserves	earnings 317,958,872	1,641,130,35 101,520,8 ⁴ -3,497,15 13,798,56

Further Information

Terms and Conditions of the Report

Responsibility Statement

The Board of Directors, the Board of Supervisors and executive management of the Company warrant that the contents of this annual report are true, accurate and complete, and do not contain any false information, misleading statements or material omissions, severally and jointly accepting any legal responsibility thereof.

Shanghai, 22 August 2022 Espressif Systems

Board of Directors

Board of Supervisors

Teo Swee Ann

Lv Zhihua

Founder and Chairman

Employee-elected

Ng Pei Chi

Fu Hanyu

Information Technology Officer

Shareholder-elected

Teo Teck Leong

Wang Yiwen

Shareholder-elected

Shareholder-elected

Xu Xin

Shareholder-elected

Lan Yuzhe

Independent Director

Teo Swee AnnFounder and CEO

Koh Chuan Koon

Wang Jue

Independent Director

Deputy General Manager

Executive Management

Lee Sze Chin

Shao Jingbo

Independent Director

Financial Director

Forward-looking Statements

This report contains forward-looking statements and/or assessments about the business, financial condition, performance and strategy of the Espressif Group. These statements and/or assessments are based on assumptions and management expectations resting upon currently available information and current estimates. These are subject to a multitude of uncertainties and risks, many of which are partially or entirely beyond Espressif's control. Espressif's actual business development, financial condition, performance and strategy may, therefore, differ from what is discussed in this report.



List of abbreviations

Al Artificial Intelligence

AloT Artificial Intelligence and Internet of Things

Bluetooth LE Bluetooth Low Energy

CEO Chief Executive Officer

CES Consumer Electronics Show

COVID-19 Coronavirus Disease-2019

EBITDA Earnings Before Interest, Taxes, Depreciation and Amortization

ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD.

ETF Exchange Traded Fund

G&A General and Administrative

GM Gross Margin

IC Integrated Circuit

Internet of Things

OBD On-Board Diagnostics

PCS Piece of Chips

POS Point of Sale

R&D Research & Development

RF Radio Frequency

RISC-V MCU Reduced Instruction Set Computer-V Microcontroller Unit

ROE Return on Earnings

RTOS Real-Time Operating System

SG&A Selling, General and Administrative

SH Shanghai

SoCs System on Chips

TPPS Third-Party Plugins

TSR Techno Systems Research

YoY Year-on-Year

Investor Relations

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esp8266.com

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Social Media

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All amounts presented in these condensed Consolidated Financial Statements are shown in CNY unless stated otherwise. Slight discrepancies between the amounts presented may occur due to rounding.