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# About Espressif



## A Leading AloT Solution Provider

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, IoT software application frameworks, Cloud, etc.

We have a diverse team of engineers from around the world. All company branches employ more than 500 members of staff from almost 30 countries and regions, +75% 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.



# Business Highlights (Unaudited)

## Key Financial Data (Unaudited)

	Three Months Ended		Fiscal Year	
CNY	March 31, 2022	March 31, 2021	2021	
Consolidated Statement of Income Data				
Revenue	288,948,065	270,513,645	1,386,371,54	
Gross profit	118,589,940	108,219,817	549,025,732	
Selling expenses	9,194,881	9,789,393	41,815,69	
General and administrative expenses	13,404,541	12,202,888	55,485,14	
Research and development expenses	74,848,290	58,890,426	271,689,98	
Net income	27,852,092	33,999,375	198,427,708	
Earnings per share:				
Basic	0.3475	0.4248	2.477	
Diluted	0.3475	0.4248	2.456	
	March 31, 2022	December 31, 2021		
Consolidated Balance Sheet Data				
Cash, cash equivalent and investments	1,027,717,008	1,114,558,363		
Working capital	1,791,815,378	1,749,605,271		
Total assets	2,094,943,752	2,129,056,143		
Long-term obligations	66,739,721	68,244,392		
Total shareholders' equity	1,874,366,128	1,823,017,913		
	Three Moi	nths Ended	Fiscal Year	
	March 31, 2022	March 31, 2021	2021	
Consolidated Cash Flow Data				
Net cash flow from operating activities	-36,870,506	-13,498,498	31,460,85	
Non-GAAP Adjustment				
Stock-based compensation	4,825,008	5,423,960	21,787,96	
Non-GAAP net income	32,677,101	39,423,335	220,215,67	

# Key Financial Indicators (Unaudited)

	Three Month	Three Months Ended	
	March 31, 2022	March 31, 2021	2021
aross margin	41.04%	40.01%	39.60%
&D-to-sales ratio	25.90%	21.77%	19.60%
BITDA margin	11.67%	13.71%	16.78%
eighted ROE	1.51%	2.07%	11.52%

## Financial Analysis

### Revenue and Gross Margin

Espressif's revenue during the first quarter of 2022 was CNY 288.95 million, which marked an increase of 6.81% compared to the same period of last year. The Internet of Things industry is still growing, but the first quarter of 2022 was an off-peak period for the company. In addition, the ongoing global pandemic and the impact of the Omicron variant, in particular, resulted in extended lockdowns for several Chinese cities, which has affected the downstream demand. Thus, the company sales increased only slightly compared with last year's same period. The gross margin for the reporting period was 41.04%.

### Research and Development Expenses

The R&D expenditure in Q1 2022 was CNY 74.85 million, that is, 27.10% up compared with the same period of last year. In fact, the company's development expanded significantly and it now includes the integration of "Wireless SoC + AI + Software + Cloud", which has required substantial R&D investment. At the same time, the company is focused on improving the efficiency of its research-and-development, with the aim to speed up the release of new products. The two series of chips released in 2020, ESP32-S3 and ESP32-C3, have contributed to the company's financial performance in Q1 2022, and the three new chips released in 2021, ESP32-H2, ESP32-C2 and ESP32-C6, will enter the stage of mass production and marketing promotion soon. Our cloud platform, ESP Rainmaker, will also contribute to the revenue that will be accumulated throughout 2022.

### Inventories

The closing inventory balance at the end of Q1 2022 was CNY 396.18 million, thus increasing by 21.46% since the end of the previous year. Considering the following factors collectively, the company has maintained an active stocking strategy, while raw materials and finished products increased during the reporting period.

- We expect that wafer supply will remain tight in the current year.
- We continue to explore new business opportunities, such as enterprise-wide business applications (e.g., industrial automation, healthcare, energy control, etc.) which have already started integrating Internet connectivity into their offerings. Additionally, it is expected that consumption by individuals will recover as soon as the pandemic is controlled in China.
- The life cycle of Espressif products is fairly long. We provide a longevity commitment of up to 12 years, and the company is strong enough to manage any inventory backlog.

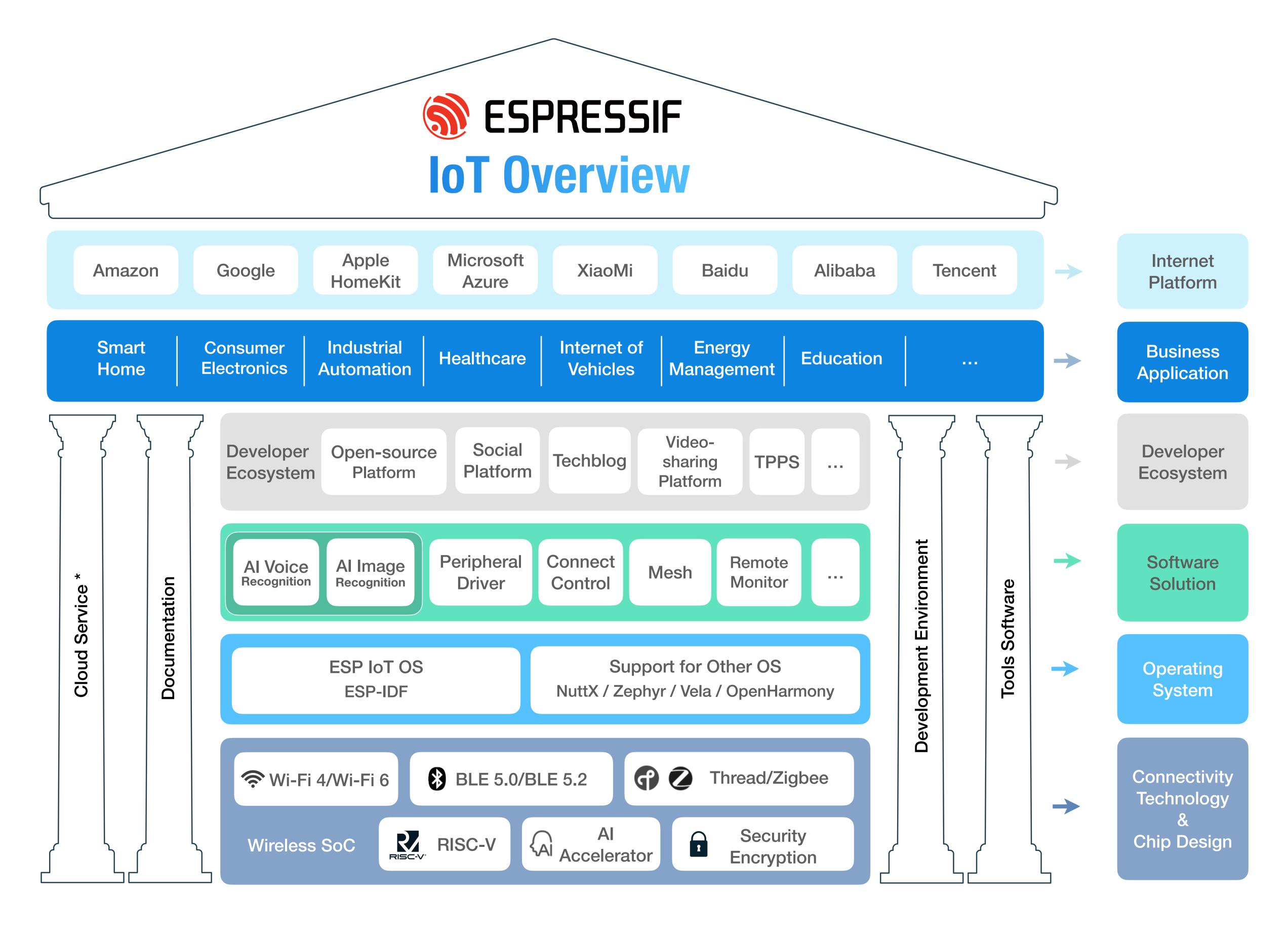
The cumulative inventory has led to a net cash outflow from operating activities during the first quarter of 2022.



# Management Report

## **Business Strategy**

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



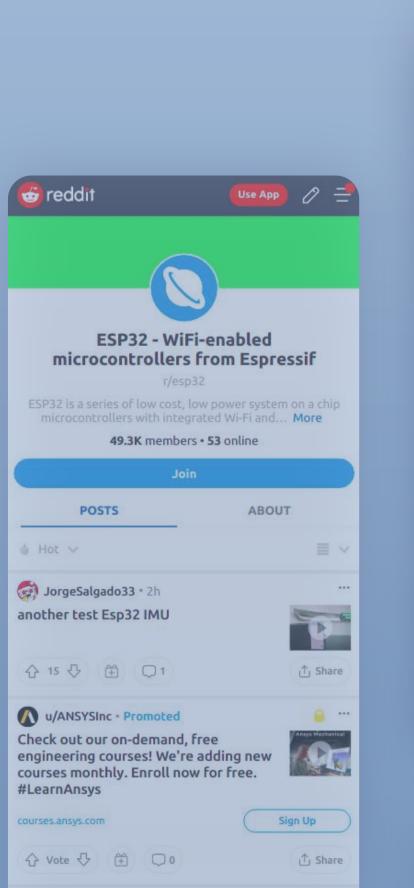
<sup>\*</sup> ESP RainMaker®, an AloT cloud platform that enables customers to quickly build their own solutions based on enterprise-grade cloud computing, with a single-click deployment.

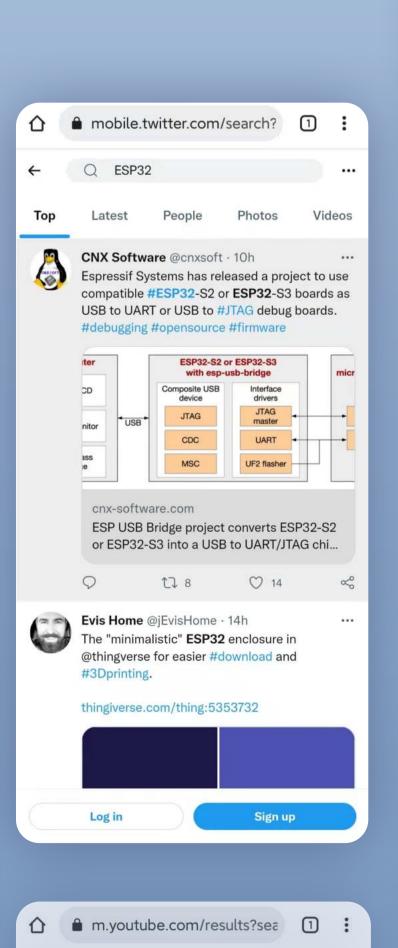
### Developer Community Metrics

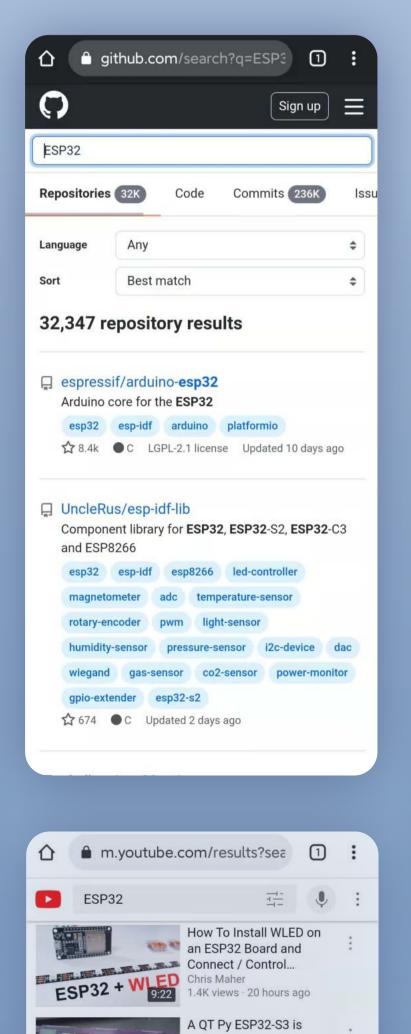
SEP32 Projects   32,742   29,007   13%   2598266 Projects   36,438   35,055   4%   36,438   35,055   4%   36,438   35,055   4%   36,438   35,055   4%   36,438   35,055   4%   36,438   35,055   4%   36,438   35,055   4%   36,438   35,055   4%   36,438   35,055   4%   36,438   35,055   36,238   36,2	ITEM	April 27, 2022	Dec 31, 2021	change%
ESP32 Projects         32,742         29,007         13%           ESP8266 Projects         36,438         35,055         4%           itee (Chinese open-source development platform)         ESP32 Projects         2,719         2,592         5%           ESP8266 Projects         1,926         1,867         3%           SDN (Chinese Tech-blog platform)         8         5%         5%           Search results for ESP32         83,381         79,188         5%           Search results for ESP8266         31,055         30,033         3%           ackaday (open-source hardware platform)         8         4,029         3,816         6%           ESP8287 projects         4,029         3,816         6%           ESP8286 projects         4,978         46,540         7%           ESP8286 group members         5,871         5,789         1%           eddit         8         49,758         46,540         7%           ESP8286 group members         55,168         53,523         3%           ilibilit (Chinese video-sharing platform)         18,996         17,502         9%           official account followers         19,996         17,502         9%           official account subscribers				
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ESP32 Projects         2,719         2,592         5%           ESP8266 Projects         1,926         1,867         3%           SDN (Chinese Tech-blog platform)           Search results for ESP32         83,381         79,188         5%           Search results for ESP8266         31,055         30,033         3%           ackaday (open-source hardware platform)           ESP32 projects         4,029         3,816         6%           ESP8266 projects         5,871         5,789         1%           eddit           ESP32 group members         49,758         46,540         7%           ESP8266 group members         55,168         53,523         3%           dibibil (Chinese video-sharing platform)           Official account followers         18,996         17,502         9%           Official account views         455,506         390,000         17%           countube           Official account views         567,465         556,846         2%           Colspan="4">Colspa	ESP8266 Projects	36,438	35,055	4%
ESP8266 Projects         1,926         1,867         3,928           SDN (Chinese Tech-blog platform)           Search results for ESP32         83,381         79,188         5%           Search results for ESP8266         31,055         30,033         3%           ackaday (open-source hardware platform)         89,220         3,816         6%           ESP32 projects         4,029         3,816         6%           ESP8266 projects         5,871         5,789         1%           eddit         ESP8266 group members         49,758         46,540         7%           ESP828 group members         55,168         53,523         3%           ilibili (Chinese video-sharing platform)         Use official account followers         18,996         17,502         9%           Official account views         455,506         390,000         17%           cutrube         Official account views         11,800         11,600         2%           Official account views         567,465         556,846         2%           ESP32 community videos         522,995         466,459         12%           ESP8266 community videos         725,961         687,155         6%           Views	litee (Chinese open-source development platform)			
SDN (Chinese Tech-blog platform)           Search results for ESP32         83,381         79,188         5%           Search results for ESP8266         31,055         30,033         3%           ackaday (open-source hardware platform)           ESP32 projects         4,029         3,816         6%           ESP8266 projects         5,871         5,789         1%           eddit           ESP32 group members         49,758         46,540         7%           ESP8266 group members         55,168         53,523         3%           ilibili (Chinese video-sharing platform)           Official account followers         18,996         17,502         9%           Official account views         455,506         390,000         17%           control           Official account subscribers         11,800         11,600         2%           Official account views         567,465         556,846         2%           ESP32 community videos         52,995         466,459         12%           ESP8266 community videos         725,961         687,155         6%           Uviews of most watched ESP32 community video         around 2.5m <td< td=""><td>ESP32 Projects</td><td>2,719</td><td>2,592</td><td>5%</td></td<>	ESP32 Projects	2,719	2,592	5%
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Official account subscribers       11,800       11,600       2%         Official account views       567,465       556,846       2%         ESP32 community videos       522,995       466,459       12%         ESP8266 community videos       725,961       687,155       6%         Views of most watched ESP32 community video       around 2.5m       around 1.5m	Official account views	455,506	390,000	17%
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Views of most watched ESP32 community video around 2.5m around 1.5m	ESP32 community videos	522,995	466,459	12%
	ESP8266 community videos	725,961	687,155	6%
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	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.



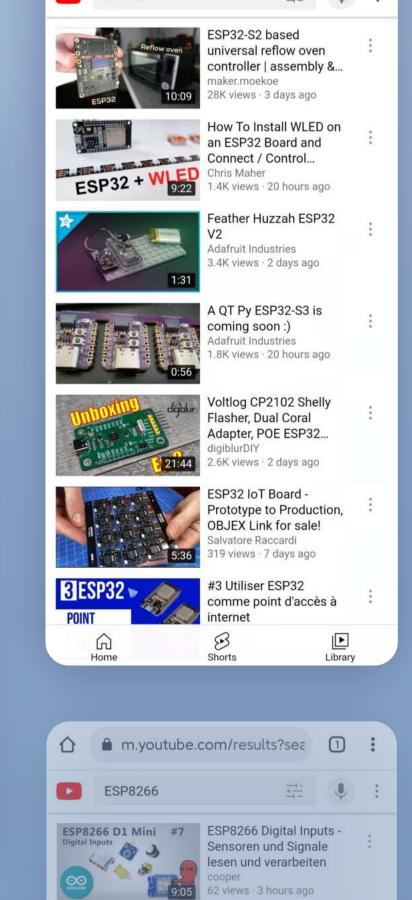




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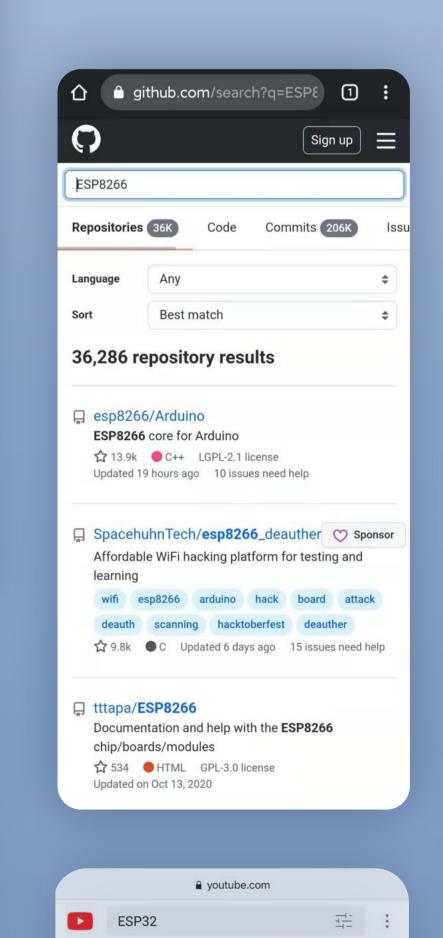


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# Ownership of Securities

### Basic information of securities

Share types	Ordinary share
Share capital	80,374,966 (as of March 31, 2022)
Listing	Shanghai Stock Exchange (SSE)
Ticker	688018.SH
Listing Date	2019-07-22

### Shareholder Structure as of Mar 31, 2022

Shareholder	Share Numbers	Percentage (%)
Espressif (Hong Kong) Investment Ltd.	34,860,000	43.37
Shinvest Holding Ltd.	2,804,446	3.49
Yadong Beichen Investment Management Co., Ltd.	2,568,484	3.20
MERRILL LYNCH INTERNATIONAL	2,056,361	2.56
BOC - Franklin Templeton Sealand Fund	1,791,489	2.23
ABC - Franklin Templeton Sealand Fund	1,251,882	1.56
Ningbo Meishan Free Trade Port Le Tun Investment Management Partnership (Limited Partnership)	1,046,030	1.30
MORGAN STANLEY & CO. INTERNATIONAL PLC.	940,162	1.17
CMB – Franklin Templeton Sealand Fund	915,473	1.14
BOC - Cathay Pacific CES Semiconductor Chip ETF	886,724	1.10
Top ten shareholders	49,121,051	61.12
Other public shareholders	31,253,915	38.88
Total of outstanding shares	80,374,966	100.00

### Risks and Uncertainties



#### Financial Risk

The Company performs periodic credit evaluations of its customers' financial condition and generally requires no collateral from its customers. 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 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 substantial 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 29.05%, 42.18% and 50.96% during the fiscal years of 2021, 2020 and 2019, respectively. None of the customers accounted for greater than 10% of our revenue during the fiscal year of 2021.

# Financial Statements (Unaudited)

### Consolidated Balance Sheet (Unaudited)

CNY	March 31, 2022	December 31, 2021
Assets		
Current assets:		
Cash and bank balances	414,614,465	367,149,078
Transactions of monetary assets	613,102,542	747,409,285
Notes receivable	6,894,036	11,600,177
Accounts receivable, net	235,629,926	306,823,758
Prepayments	13,725,689	8,172,703
Other receivables	9,483,712	9,519,869
Including: Interest receivable	761,091	298,796
Inventories	396,178,543	326,168,928
Other current assets	256,024,366	210,555,311
Total current assets	1,945,653,280	1,987,399,110
Non-current assets:		
Investment in other equity assets	56,595,200	56,600,700
Fixed assets	48,801,038	46,176,368
Construction work in progress		
Right-of-use assets	21,254,676	21,731,123
Intangible assets	2,996,581	3,191,335
Long-term deferred expenses	7,195,129	7,582,637
Deferred income tax assets	12,447,849	6,374,870
Total assets	2,094,943,752	2,129,056,143

# Consolidated Balance Sheet (Unaudited)

CNY	March 31, 2022	December 31, 2021
Liabilities & Shareholders' Equity		
Current liabilities:		
Accounts payable	73,929,814	138,572,198
Contract liabilities	23,482,662	17,184,196
Payroll payable	29,624,227	66,168,763
Taxes payable	8,169,446	6,472,494
Other payable	7,662,710	754,261
Non-current liabilities due within one year	10,969,044	8,641,928
Total current liabilities	153,837,902	237,793,839
Non-current liabilities:		
Lease liabilities	11,149,143	12,116,036
Deferred income tax liabilities	55,590,578	56,128,356
Total liabilities	220,577,623	306,038,230
Owners' equity (or shareholders' equity):		
Share capital	80,374,966	80,158,963
Capital reserves	1,291,696,374	1,266,771,034
Other comprehensive income	-17,356,799	-15,711,579
Surplus reserves	33,462,951	33,462,95
Retained earnings	486,188,636	458,336,543
Total shareholder equity	1,874,366,128	1,823,017,913
Total liabilities and shareholders' equity	2,094,943,752	2,129,056,143

# Consolidated Income Statement (Unaudited)

	Three Months End	ded
CNY	March 31, 2022	March 31, 2021
Revenue	288,948,065	270,513,645
Cost of Revenue	170,358,125	162,293,828
Gross Profit	118,589,940	108,219,817
Taxes and surcharges	518,433	669,524
Selling expenses	9,194,881	9,789,393
General and administrative expenses	13,404,541	12,202,888
Research and development expenses	74,848,290	58,890,426
Financial expenses	568,027	-1,084,134
Including: Interest expenses	212,682	
Interest income	696,647	1,056,570
Add: Other income	252,748	211,159
Investment income (mark"-" for loss)	3,180,588	3,824,922
Incomes from changes in fair value (mark"-" for loss)	3,076,241	1,721,331
Credit impairment losses (mark"-" for loss)		8,531
Assets impairment losses (mark"-" for loss)	-412,271	-186,230
Assets disposal income (mark"-" for loss)		
Operating Income	26,153,075	33,331,433
Add: Non-operating revenues		
Less: Non-operating expenses		23,470
Income before income taxes	26,153,075	33,307,963
Provision (benefit) for income taxes	-1,699,018	-691,412
Net Income	27,852,092	33,999,375
Earnings per share		
Basic	0.3475	0.4248
Diluted	0.3475	0.4248
	Three Months End	led
CNY	March 31, 2022	March 31, 2021
		<u> </u>
Net Income	27,852,092	33,999,375
Other comprehensive income (mark"-" for loss), after tax		
Changes to the fair value of investment in other equity instruments	-5,500	9,280
Currency translation reserves	-1,639,720	2,769,633
Other comprehensive income (mark"-" for loss)	-1,645,220	2,778,913
Comprehensive income	26,206,872	36,778,288

# Consolidated Cash Flow Statement (Unaudited)

March 31, 2022	
	March 31, 2021
392,796,778	296,301,671
27,316,374	14,728,575
9,288,587	1,533,905
429,401,738	312,564,150
336,017,954	214,649,468
107,719,618	89,711,836
6,938,817	5,945,478
15,595,855	15,755,867
466,272,244	326,062,649
-36,870,506	-13,498,498
833,768,443	858,355,385
1,427,583	
	5,510
835,196,026	858,360,895
12,606,551	4,900,519
755,100,000	909,770,000
767,706,551	914,670,519
67,489,475	-56,309,624
20,316,335	
20,316,335	
	32,742,816
1,236,611	1,936,027
1,236,611	34,678,843
19,079,723	-34,678,843
-2,226,953	3,047,730
47.471.739	-101,439,235
367,142,726	503,239,843
	27,316,374 9,288,587 429,401,738 336,017,954 107,719,618 6,938,817 15,595,855 466,272,244 -36,870,506  833,768,443 1,427,583  835,196,026 12,606,551 755,100,000  767,706,551 67,489,475  20,316,335  20,316,335  20,316,335  1,236,611 1,236,611 19,079,723 -2,226,953 47,471,739

# 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 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, 29 April 2022 Espressif Systems

#### **Board of Directors**

**Teo Swee Ann** 

Founder and Chairman

Ng Pei Chi

Information Technology Officer

**Teo Teck Leong** 

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Xu Xin

Shareholder-elected

Lan Yuzhe

Independent Director

Koh Chuan Koon

Independent Director

Lee Sze Chin

Independent Director

#### **Board of Supervisors**

Lv Zhihua

Employee-elected

Fu Hanyu

Shareholder-elected

Wang Yiwen

Shareholder-elected

#### **Executive Management**

**Teo Swee Ann** 

Founder and CEO

Wang Jue

Deputy General Manager

**Shao Jingbo** 

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

AI Artificial Intelligence

AloT Artificial Intelligence and Internet of Things

Bluetooth LE Bluetooth Low Energy

**CEO** Chief Executive Officer

**CES** Consumer Electronics Show

EBITDA Earnings Before Interest, Taxes, Depreciation and Amortization

Espressif ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD.

ETF Exchange Traded Fund

G&A General and Administrative

GM Gross Margin

**IoT** Internet of Things

R&D Research & Development

RF Radio Frequency

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

ROE Return on Earnings

SG&A Selling, General and Administrative

SH Shanghai

SoCs System on Chips

**TPPS** Third-Party Plugins

TSR Techno Systems Research



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