

Megawin Technology Co., Ltd.

Institutional Investor Conference (H2 2023)

Code: 3122

Date: Nov. 8, 2023

Spokesperson:

Alex Liao

Director, Operation & Marketing Div.

(TEL) 886-3-6234096

(E-mail) sholder@megawin.com.tw





Safe Harbor Notice

Megawin's statements of its current expectations are forward-looking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.

Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.



Overview

Established June, 1999

Chairman & CEO Kenny Wen

Employees
81 (Taiwan: 70 & China: 11)

Capital NTD 396 millions Business

 Development, design, and sale microcontrollers
 (a MCU-based IC design house)

 Main products

 ARM Cortex-M0/M3 MCU,
 8051 MCU,
 USB MCU,
 LDO/BLDC Series



- Operation Performance & Financial Results
- Product Application & Business Outlook
- **III** Q&A



I. Operation Performance & Financial Results



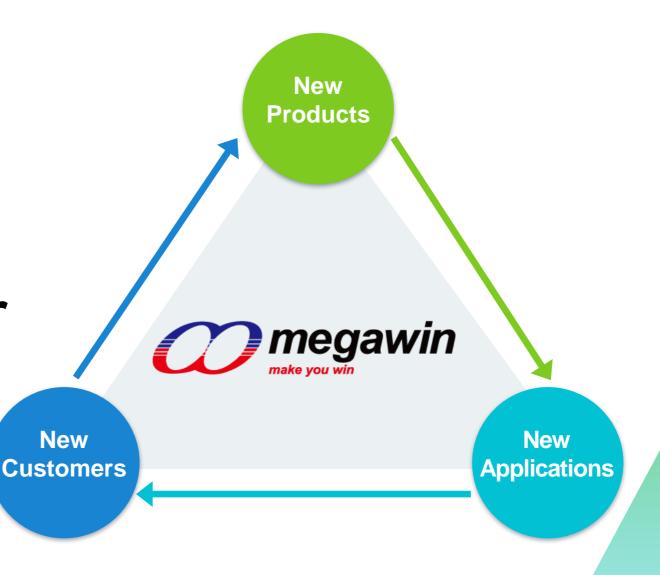
Key Growth Drivers for Revenue

Total Solution

Provide total solution for customers

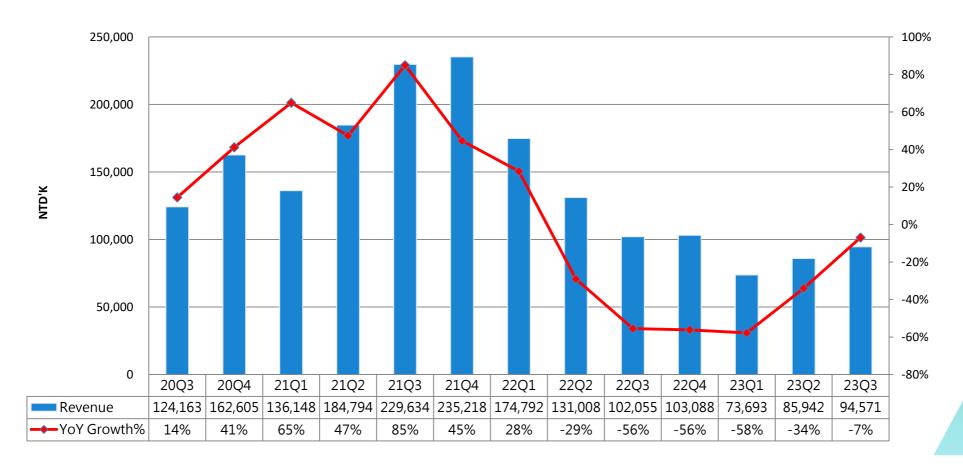
Best Cost-Performance Ratio

Achieve the best cost-performance ratio



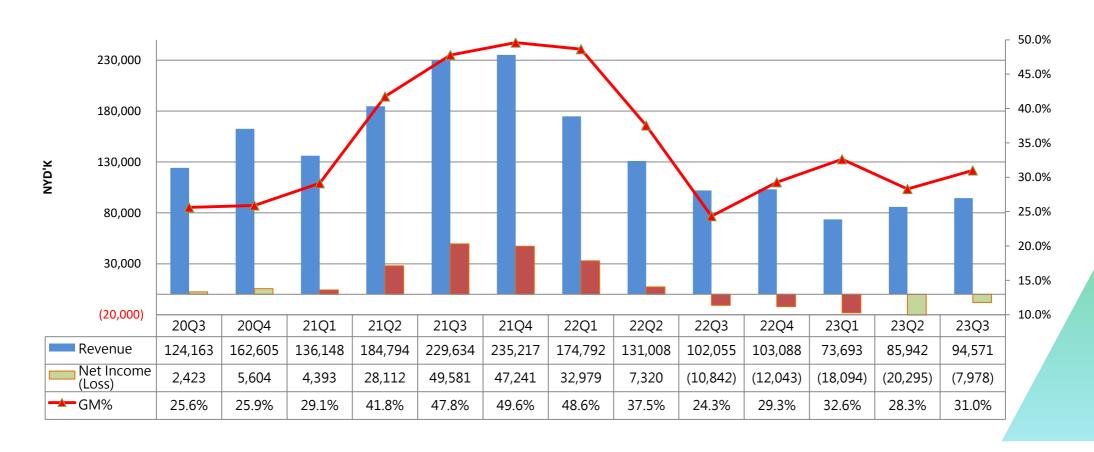


Quarterly Revenue & Growth Rate



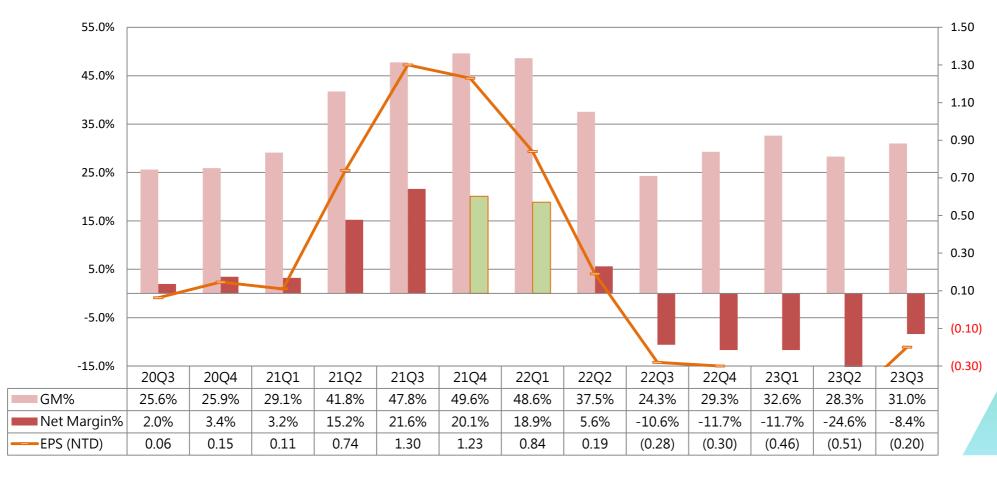


Operating Results (1/2)





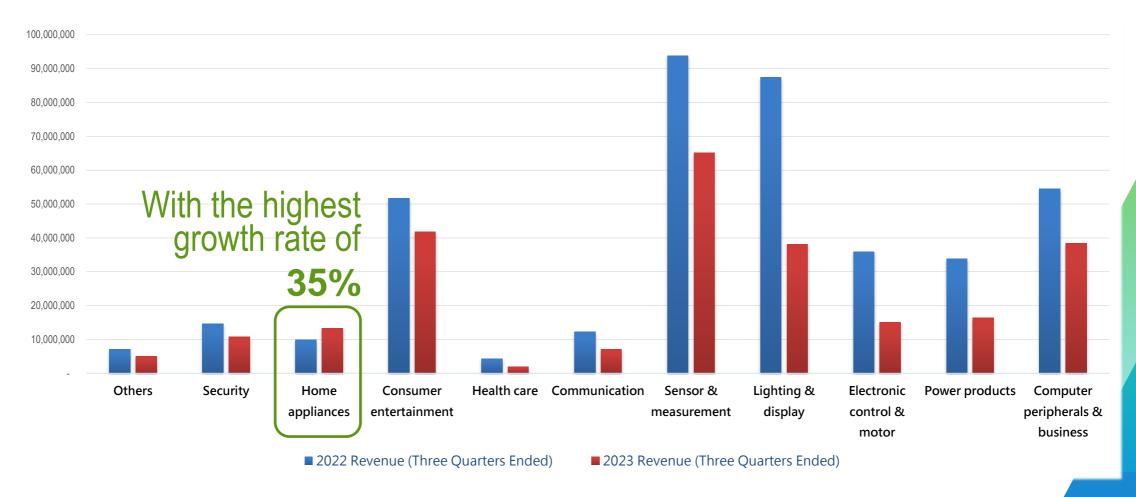
Operating Results (2/2)





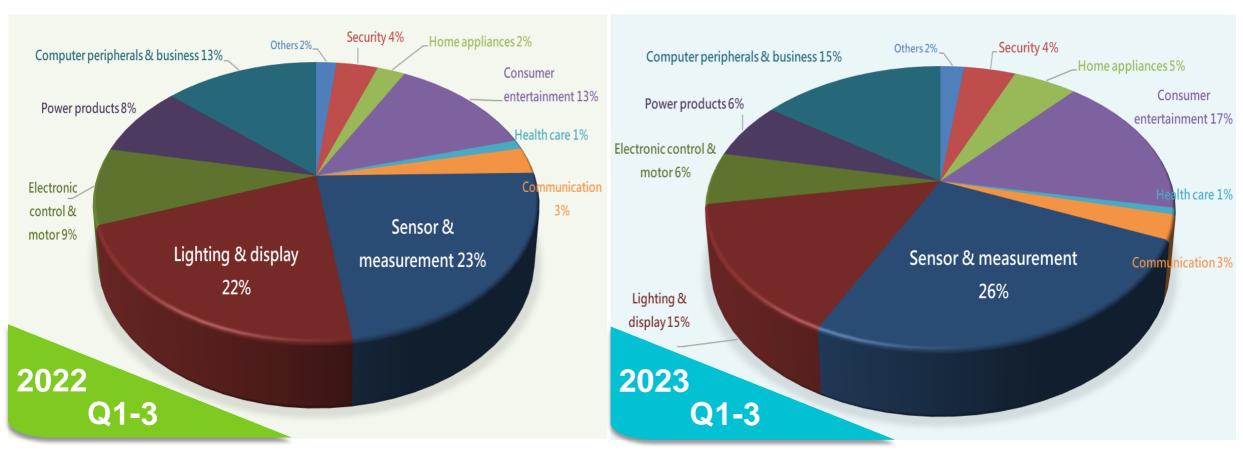


2023 Q1-Q3 MCU Growth Analysis by Industry



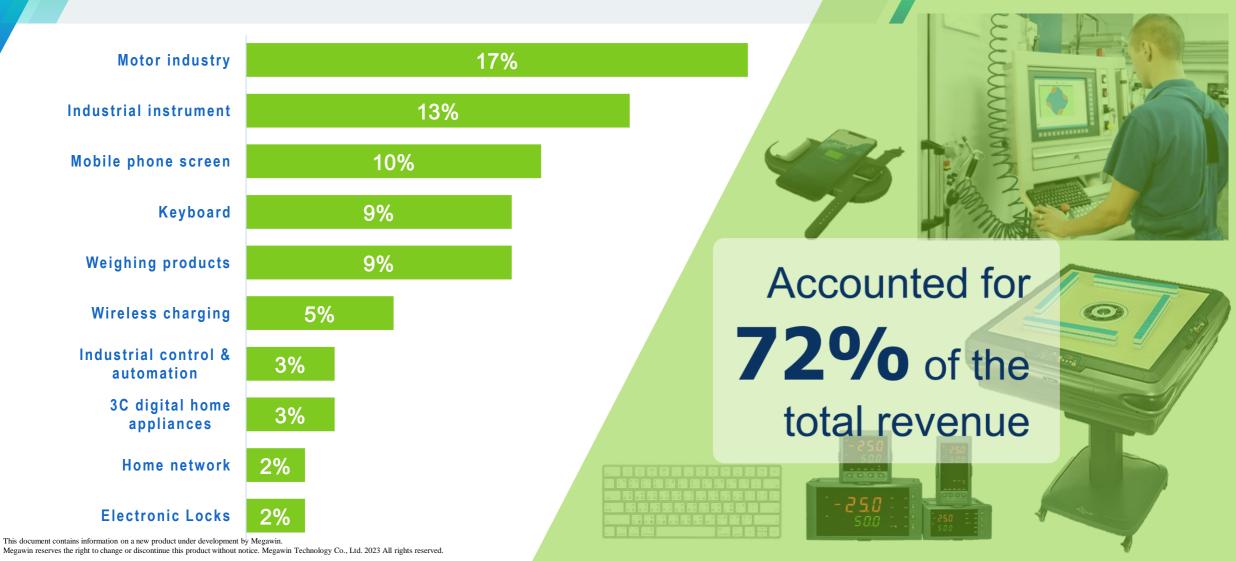


MCU Breakdown by Industry





2023 Megawin Top 10 Applications

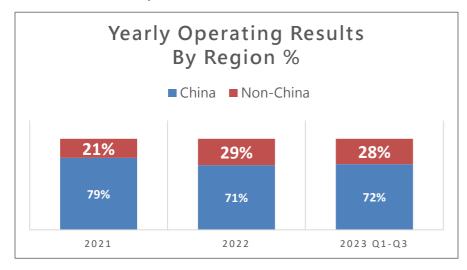




Continue to Cultivate Overseas Markets



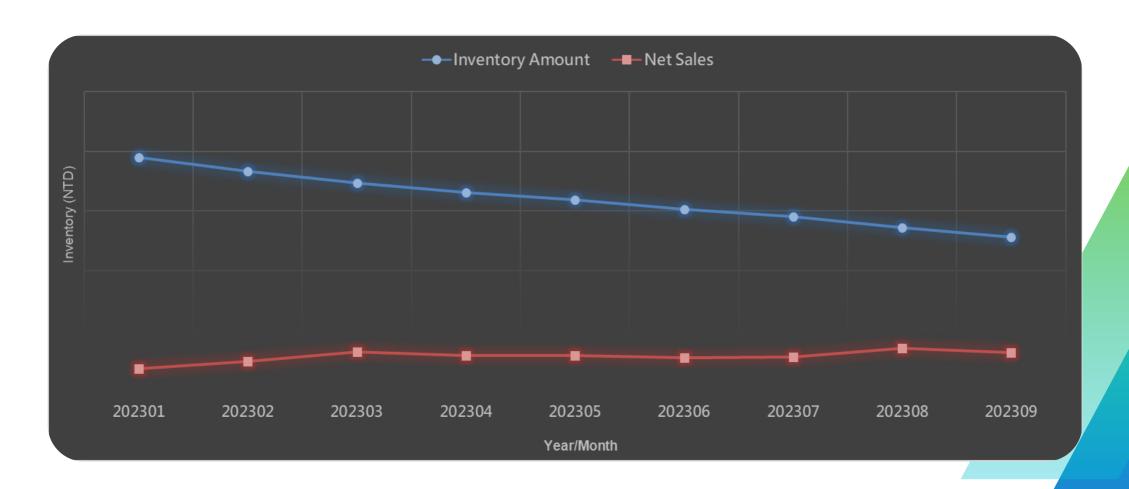
- Opened up the Japanese market last year, successfully entered industrial instruments and smart curtain applications
- Entered Japan's beauty equipment application in Q3 this year
- Gradually enters the white goods, security, and motor-related product markets in European countries.





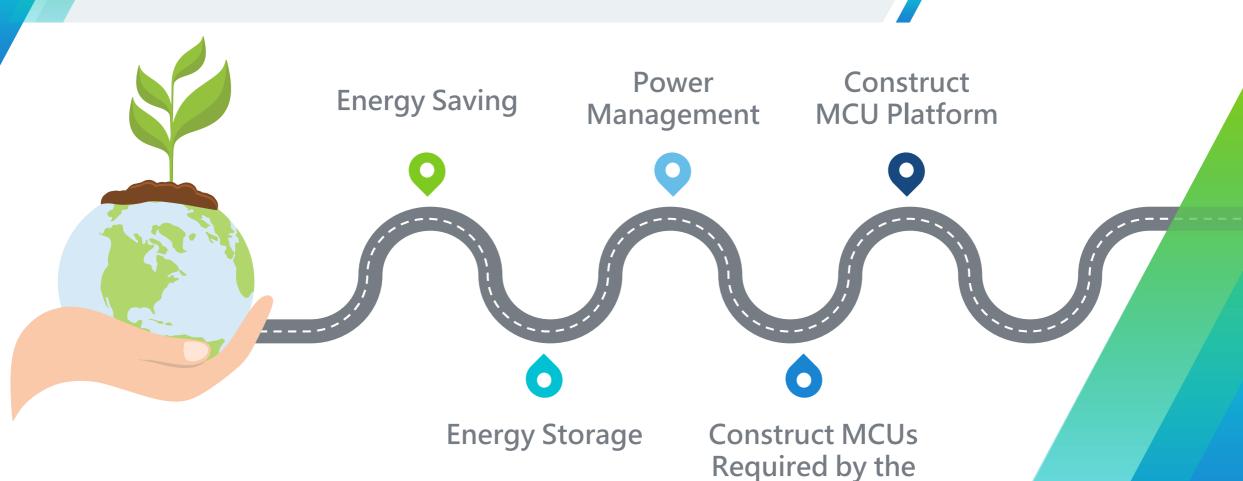


Inventory Status





Megawin Product Vision



Electric Vehicle Industry







MGEQ1C064AD48 Applications



Power Seat



Dashboard



Wireless Charging



Power Tailgate



Dynamic Taillights



Windshield Wipers



Windows Control



Automotive Lighting



1. Energy Saving

- Responding to green energy and carbon reduction, sustainable development, and MCU power consumption reduction (Super low power)
 - Extensive intelligence is the driving force for ULP MCU market growth
- Ultra-Low-Power MCU (ULP MCU)
 - Cooperate with foundry to develop ultra-low-power consumption technology (Device module, STD cell, PDK)
 - Has been developed for more than two years and is expected to have results in Q4 2024

Energy Saving

- **ULP MCU Applications**
 - Wearable device

Personal medical equipment

Smart sensor

Portable electronics

Home automation

1.1. ULP MCU Market Size

Global Ultra-Low-Power Microcontroller Market is Expected

Energy Saving

to Account for USD 9,221.87 Million by 2029



Global ULP MCU TAM

Already over \$4.2 billion in 2021

Will grow to \$12.9 billion in 2024

Will jump to \$100 billion by 2026



Global Ultra-Low-Power Microcontroller Market, By Regions, 2022 to 2029



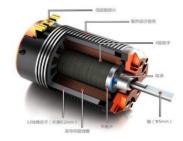
DATA BRIDGE MARKET RESEARCH

Data Bridge Market Research Market Analysis Study 2022 DMCA Protected © Data Bridge Market Research - All Rights Reserved.

2022



1.2. Brushless DC Motor (BLDC)



In order to improve the performance of BLDC itself, it is necessary to integrate with SoC system electronic control IC; Enables motors to run more efficiently and reduce energy consumption at lower cost

Energy Saving

- Improve motor efficiency (80% to 90%); market as a system module
 - Develop motor controller architecture (F/W)
 - Develop high-voltage drive (Isolator)

- Develop MOSFET (Developed by the invested company, Chip1 Co., Ltd.)
- Integrate IGBT, SiC
- The market size of BLDC motors is growing year by year, driving up the demand for MCU drive control chips
 - Global market size: USD17.3 billion in 2020, estimated to grow to USD27.2 billion in 2027, with a CAGR of 6.6% (Note1)
 - China's market size: 2018-2023 market size CAGR is 15%. The growth rate of the Chinese market exceeds that of the global market (Note2)

1.3. Promote BLDC via Modular Platform









Energy Saving





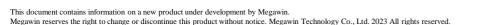


Ceil Fan Crossflow Fan

Hair Dryer

Servo Fan

Water Heat Exhaust



2. Lithium Battery Management



- The era of lithium batteries has arrived (home/personal components/communication/transportation...);
 Build a safe battery management system SoC to meet future needs and growth
- Focus on BMS electronic control IC system
- Establish a battery (Cell) characteristic laboratory
- Develop battery protection algorithms
- Battery metering module expected to be launched in December
- Develop 24Bit ADC (had been verified)
- Develop AFE SoC (plan to develop 12-16 string battery management AFE)

megawin

2.1. BMS Market Size

- Global BMS market will be USD 7.2 billion in 2022
- Expected to reach USD 26.8 billion by 2030
- CAGR of 17.9% in 2022-2030

Battery Management System Market







USD 7,177.5 Mn

2030

USD 26,797 Mn

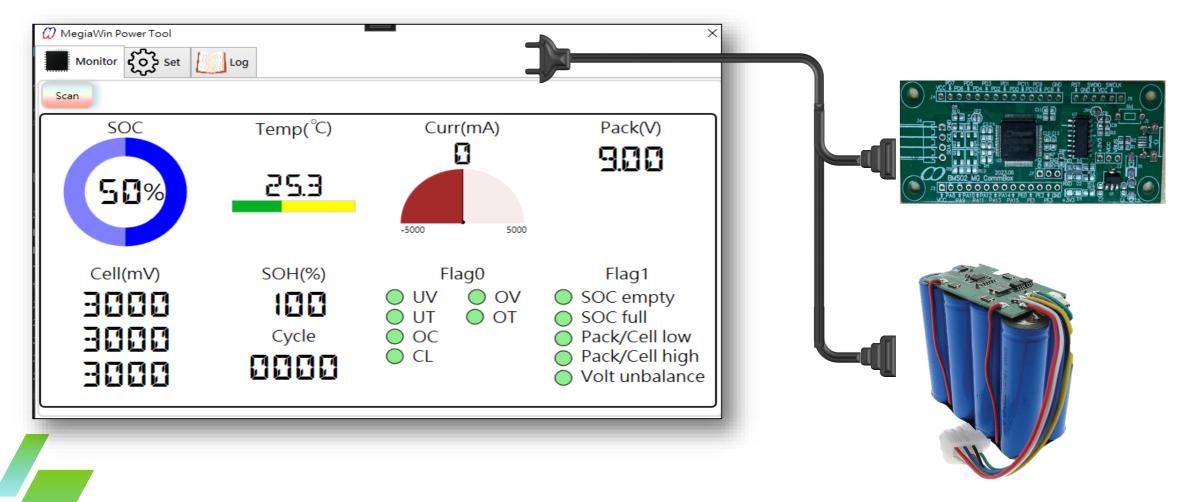


- Rising adoption of EVs
- · Surging demand for Li-ion batteries in consumer electronics and other energy storage applications



資料出處: Prescient & Strategic Intelligence





Develop a More Convenient Lithium Battery Management Suite

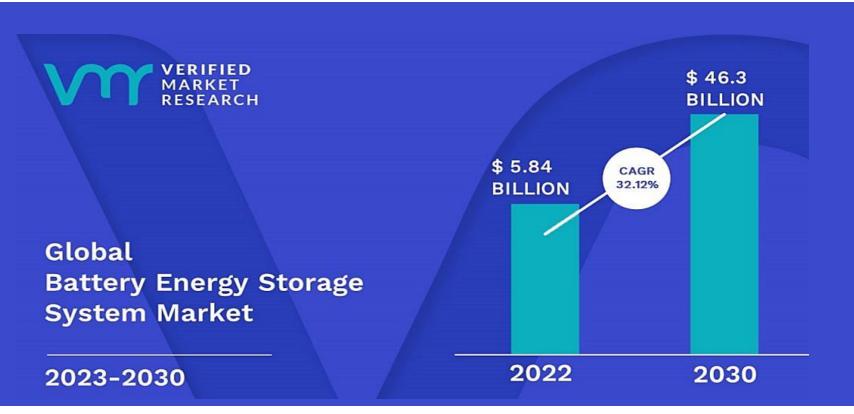
2.2. Battery Energy Storage **Market Size**

Market size in 2022 USD 5.8 billion

megawin

Expected to reach USD 46.3 billion in 2030, with a CAGR of 32%

Source: Verified Market Research



2.3. Energy Storage-Specific M3 **Put into Mass Production**

- Support one set of CAN 2.0b
- 1Mbit/s speed

megawin

• 11/29 bit identifier

- Support AES 128 HW Encryption
- TRNG generate real random number
- ECB/CBC/CTR modes

CAN BUS

Security

Analog

- 12 bit ADC x 3 set (18 CH), support
- 12 bit Voltage DAC x 2
- Operation Ampfiler x 3

Others

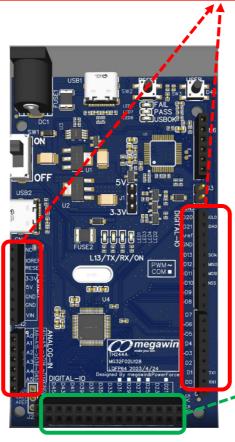
- Up to 256k FLASH and 64k SRAM
- LQFP64 / LQFP100 with 5V Torrance
- SDIO card reader (SD/SDIO/MMC4.2)
- DMA controller x 2

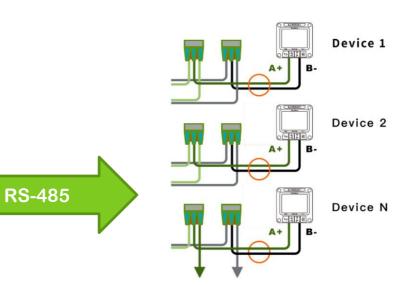


3. Developed Arduino Modules for Industrial Application

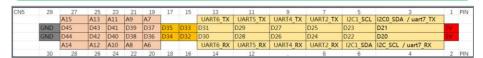
Pin compatible to Arduino rich sensor and peripherals







Extend pins for megawin's extended feature

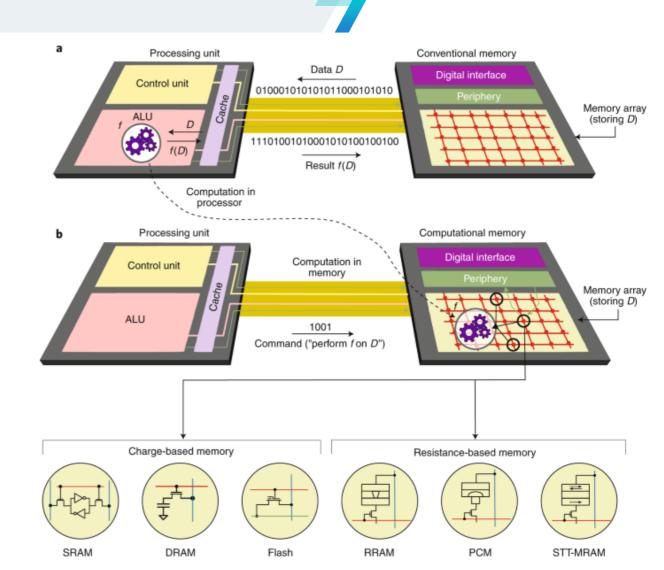


29

4.1. Developing CIM AI with ITRI

Energy Saving

- CIM (Computing In Memory)
 - Significantly reduces the memory bandwidth for AI processing
 - Effectively reduces the power consumption of AI computing
- In 2023, megawin cooperates with FOSL of ITRI* on CIM MCU application solutions.



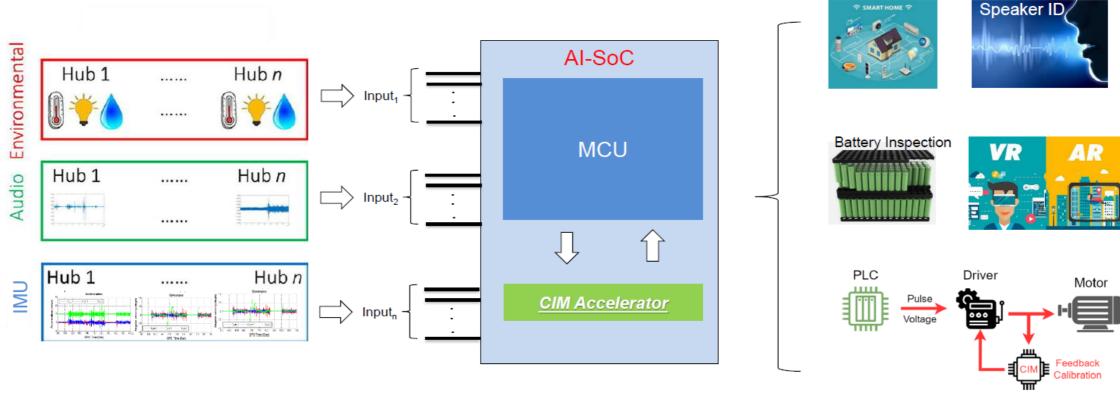
^{*} Electronic and Optoelectronic System Research Laboratories (EOSL) Industrial Technology Research Institute (ITRI)

30

4.2. CIM MCU Supports Edge Computing

Parameters extraction and data scheduling by MCU& recognition by CIM Accelerator

Energy Saving





Appendix

- 1. Consolidated Statement Of Comprehensive Income
- 2. Consolidated Balance Sheet



Appendix 1:

Consolidated Statement Of Comprehensive Income

			單位:新	台幣仟元	
	112年1月1日至9月30日		111年1月1日至9月30日		
	金額	%	金額	%	
營業收入淨額	254, 205	100	407, 856	100	
營業成本	(176, 501)	(69)	(248, 834)	(61)	
營業毛利	77, 704	31	159, 022	39	
營業費用	(128, 085)	(49)	(129, 624)	(32)	
營業淨利(損)	(50, 381)	(18)	29, 398	7	
營業外收入及支出	4, 157	2	8, 706	2	
稅前淨利(損)	(46, 224)	(16)	38, 104	9	
所得稅費用	(144)	_	(8, 647)	(2)	
本期淨利(損)	(46, 368)	(18)	29, 457	7	
每股盈餘(虧損)(單位:元)	(1.17)		0.75		



Appendix 2:

Consolidated Balance Sheet (1/3)

				單位:新台幣仟	
	資產	112年9月30日		111年9月30日	
代碼		金額	%	金額	%
	流動資產				
1100	現金及約當現金	\$91,791	13	\$132,048	16
1136	按攤銷後成本衡量之金融資產-流動	258,635	36	235,211	29
1170	應收票據及帳款	58,942	8	56,539	7
130X	存貨	92,340	13	189,530	24
1479	其他流動資產	17,633	3	21,035	3
11XX	流動資產總計	519,341	73	634,363	79
	非流動資產				
1550	採用權益法之投資	11,213	2	-	-
1600	不動產、廠房及設備	153,061	22	153,908	19
1755	使用權資產	2,277	-	3,897	-
1780	無形資產	24,810	3	15,105	2
1920	存出保證金	656	-	686	-
15XX	非流動資產總計	192,017	27	173,596	21
1XXX	資產總計	\$711,358	100	\$807,959	100



Appendix 2:

Consolidated Balance Sheet (2/3)

				單位:新台幣仟		
	負債及權益	112年9月	112年9月30日		111年9月30日	
代碼		金額	%	金額	%	
	流動負債					
2170	應付帳款	\$21,573	3	\$32,633	4	
2200	其他應付款	30,094	4	46,293	6	
2230	本期所得稅負債	34	-	7,314	1	
2280	租賃負債一流動	2,216		2,380	-	
2320	一年內到期之應付公司債	197,531	28			
2300	其他流動負債	3,829	1	5,062	-	
21XX	流動負債總計	255,277	36	93,682	11	
	非流動負債					
2530	應付公司債	0	-	195,052	24	
2580	租賃負債一非流動	162	-	1,594	-	
2645	存入保證金	3,535	-	3,535	1	
25XX	非流動負債總計	3,697	-	200,181	25	
2XXX	負債總計	\$258,974	36	\$293,863	36	



Appendix 2:

Consolidated Balance Sheet (3/3)

					f台幣仟元	
		112年3月	112年3月31日		111年3月31日	
代碼	負債及權益	金額	%	金額	%	
	股 本					
3110	普通股股本	396,089	56	391,449	49	
3140	預收股本	168	-	45	-	
3100	股本總計	396,257	56	391,494	49	
3200	資本公積	50,149	7	48,736	6	
	保留盈餘					
3310	法定盈餘公積	14,674	2	12933	2	
3320	特別盈餘公積	917	-	1429	-	
3350	未分配盈餘	-8,874	-1	60,162	7	
3300	保留盈餘總計	6,717	1	74,524	9	
3400	其他權益	-739	-	-658	-	
31XX	本公司業主權益總計	452,384	64	514,096	64	
3XXX	權益總計	\$452,384	64	\$514,096	64	
	負債及權益總計	\$711,358	100	\$807,959	100	



Thank you!

www.megawin.com.tw

