

www.lyontek.com.tw



Company Profile Date: 2023/3/14 Ver: T23_03



Founded: Nov, 2003 Headquarter: Hsin-Chu, Taiwan Capital: NT\$200M (US\$6.6M) Company website: <u>www.lyontek.com.tw</u>



Lyontek is a fabless semiconductor company that offer specialty memory include Asynchronous Low Power SRAM / High Speed SRAM, Low pin count RAM, Memory IP for the following market: Communication, Industrial, Medical, Automotive, and Digital Consumer/PC Peripherals. We also design high performance analog Audio Amplifier for consumer market. We have been a committed long-term supplier for our products no matter your demand is small or large , even through periods of tight manufacturing capacity. Foundry Partners : Global Foundries, HHGrace, PSC.



- Long Term Supply
 - . Stable delivery and quality meet industrial customers need
 - . Diverse end market application to reduce the impact from market fluctuation
- Long Product Lifetimes
 - . Flexible Product Fewest mask to provide most product
 - . Reduce development cost Stable Financial
- Low System cost by New Technology
 - . Low pin count RAM High density low cost
 - . SPI SRAM super low power consumption



2003Y Company approved in NCTU Innovation Incubation Center, Hsin – Chu. 2005Y Succeeded to get the SONY Green Partner Certification. **2006** *Y* Passed ISO9001/14001 Certification. **2007Y** Start to build Analog product line – Audio amplifier **2010Y** Accumulated SRAM shipment quantities over 50Mpcs. **2011Y** Passed QC080000 Certification. **2013Y** Accumulated SRAM shipment quantities over 100Mpcs. **2014Y** Succeed to develop 10ns 16M with ECC SRAM. **2016Y** Succeed to develop 90nm 64M Low Power SRAM. **2017Y** Expanded RAM product line, Serial PSRAM **2018Y** Expanded NVSRAM product line, 1M **2022Y** Developing Low power Serial SRAM



Dear Customers and Partners:

Lyontek had achieved the milestone of SRAM shipment accumulated 100M units on Mar, 1st. It is our great honor to share the achievement with every dear partners. We sincerely thank for your long-termed efforts and promotions. By these efforts, much more customers have chosen Lyontek products and service. Lyontek can not reach this important milestone without your efforts.

Looking into future, Lyontek admits to keep the principle of long-termed supply and to offer more excellent products and service to win the trust from more customers. Finally, let's move forward to the next "100M" milestone together.

Lyontek President

CCHung

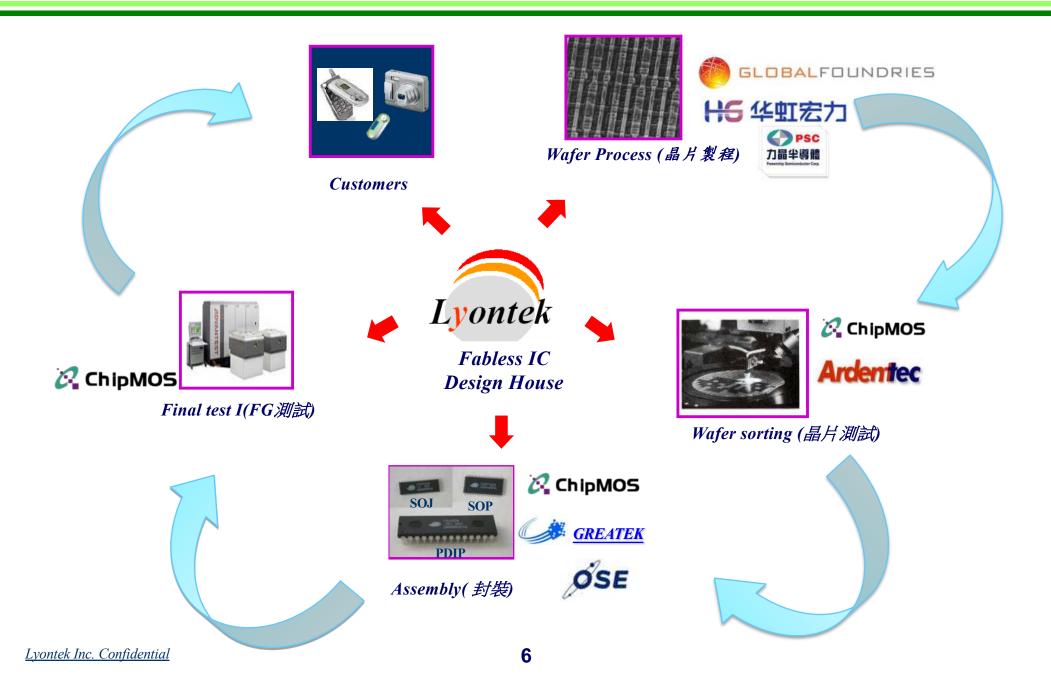
"億" 義非凡, <u>來揚</u>飛揚





Mar. 1st, 2013

Lyontek Production Flow & Cooperation Partner





Major Application

Industrial	POS	Communication	Consumer	Automotive	Medical
PLC	POS	Web Storage Management	GAME	Sensing Module	Dialysis Equipment
Power Control	E-POS	VOIP	Audio	Entertainment System	Medical Instrument
Factory Automation	IC Card Reader	Telephone Equipment	E-education Machine		
Weighting System	Barcode Scanner	Walkie Talkie	Calculator		
	POS Printer	Base Station	LED Display		
Motor Control	cash exchanger	B.B.CALL	E-book		
Saw Machine	Coffee machine	VOIP			
Electrical Recorder	ETC	GPS Module			
Server	Vending Machine	PON			
Test Instrument	Washing Machine	Transportation Tracking recorder			
Security system	Gasoline Machine				



SRAM Marketing Policy





Widely SRAM Product Guide

Density	Configuration	Power	Speed (ns)		РКС
64K	8Kx8	2.7-5.5V	35/55/70	Low power	28pin STSOP(8*13.4)/SOP/DIP
256K	32Kx8	2.7-5.5V	35/55/70	Low power	28pin STSOP(8*13.4)/SOP/DIP
		3.3V/5V	12/15/20	High speed	28pin STSOP(8*13.4)/SOJ
1M	128Kx8	3.3V/5V	35/55/70	Low power	32pin STSOP(8*13.4)/TSOPI(8*20)/SOP/PDIP/Dice
		3.3V/5V	20/15/12	High speed	32pin STSOP(8*13.4)/TSOPI(8x20)/SOJ
	64Kx16	3.3V	35/55/70	Low power	44pin TSOP-II, 48ball BGA/Dice
		3.3V	10/20	High speed	44pin TSOPII, 48ball BGA
2M	256Kx8	3.3V/5V	55/70	Low power	32pin STSOP(8*13.4)/SOP/Dice
		3.3V/5V	10/20	High speed	44pin TSOPII
	128Kx16	3.3V/5V	55/70	Low power	44pin TSOP-II, 48ball BGA/Dice
		3.3V/5V	10/20	High speed	44pin TSOPII
4M	512Kx8	3.3V/5V	55/70	Low power	32pin STSOP(8*13.4)/TSOPI(8*20)/SOP/TSOPII/Dice
		3.3V/5V	8/10/20	High speed	44pin TSOPII
	256Kx16	3.3V/5V	55/70	Low power	44pin TSOP-II/48ball BGA
		3.3V/5V	8/10/20	High speed	44pin TSOPII
8M	1Mx8	3.3V/5V	55/70	Low power	44pin TSOPII/ 48 ball BGA
		3.3V	8/10	High speed	44pin TSOPII, 48ball BGA
	512Kx16	3.3V/5V	55/70	Low power	44pin TSOPII /48 TSOPI/ 48 ball BGA
		3.3V	8/10	High speed	44pin TSOPII, 48ball BGA
16M	2Mx8	3.3V/5V	70/55	Low power	44TSOPII
		3.3V/1.8V	10/15	High speed	44 TSOPII/48BGA
	1Mx16	3.3V/5V	55/70	Low power	48 TSOPI/ 48 ball BGA
		3.3V/1.8V	10/15	High speed	48pin TSOPI/ 48ball BGA/54TSOPII
32M	4Mx8/2Mx16	3V	55	Low power	48 TSOPI/ 48 ball BGA
64M	8Mx8/4Mx16	3V	55	Low power	48 TSOPI



SRAM Road map





Low pin count RAM Introduction

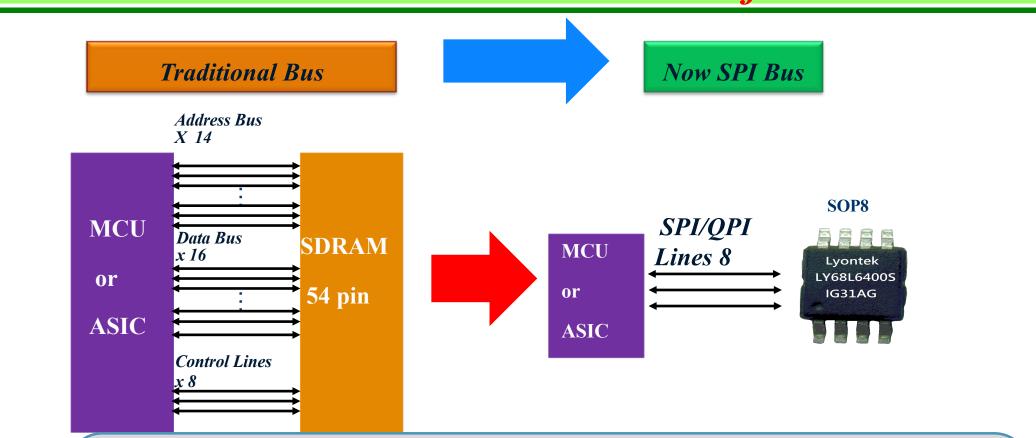


Strategy on Low pin count RAM

Low pin count RAM

- Mission: Introduce the lowest cost RAM solution
- **Goal:** The key low pin count RAM supplier
- Key Technology:

Developing low pin count RAM of SRAM and PSRAM Focus on low density form 64K to 64M keeping long term supporting SPI vs. Traditional Bus Interface



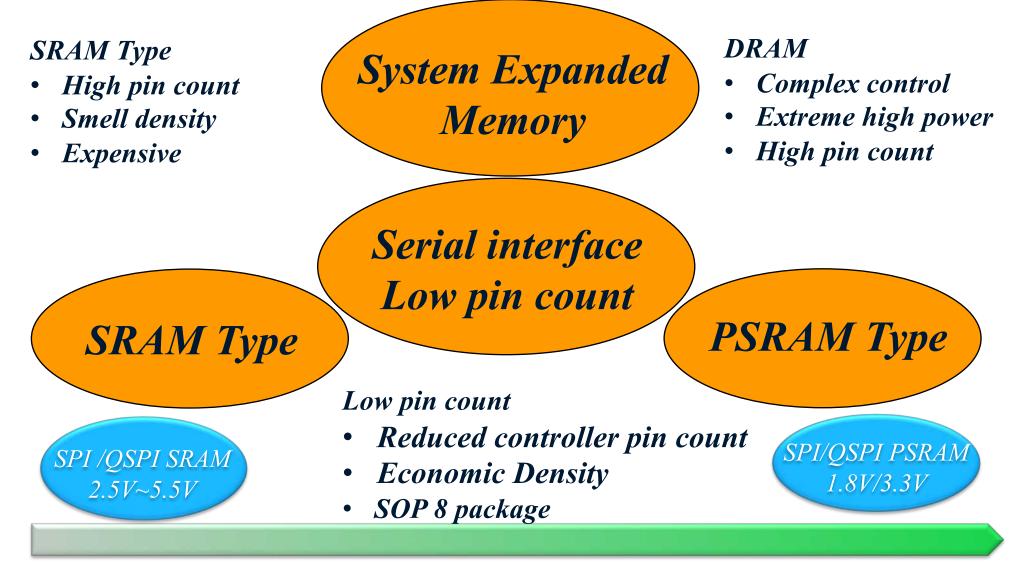
- Has only 4pin for SPI, 6 pin for QSPI
- Which can greatly simplify the PCB layout design
- Compatible with Flash footprint, SPI/Quad SPI
- Economic Density
- Long term Supply
- Power Saving

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Lyontek



Low pin count RAM Introduction

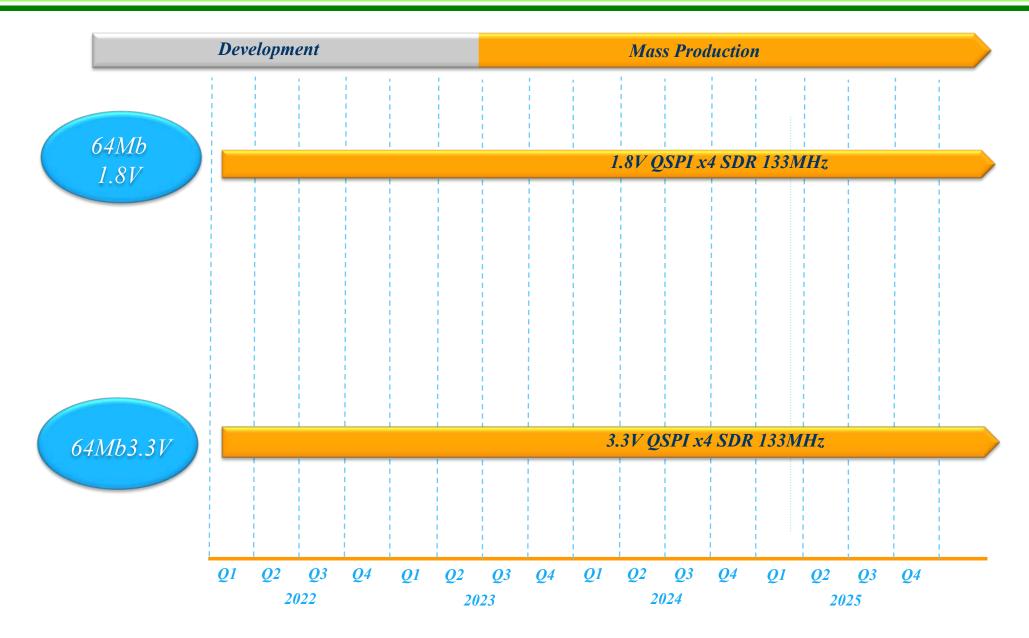


256Kb 1Mb 2Mb 4Mb

64Mb

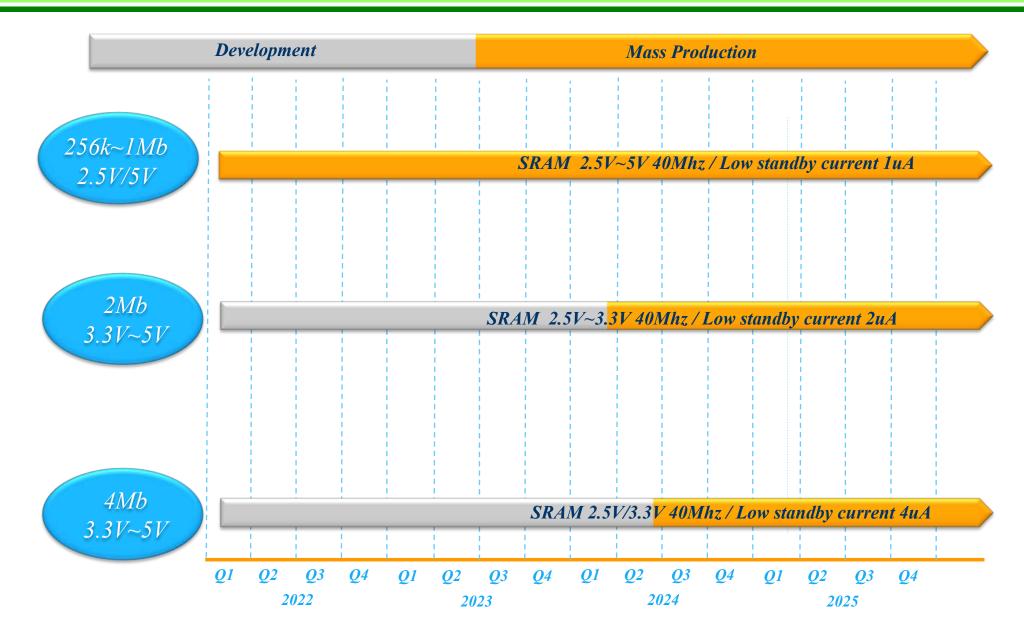


Low pin count RAM Roadmap





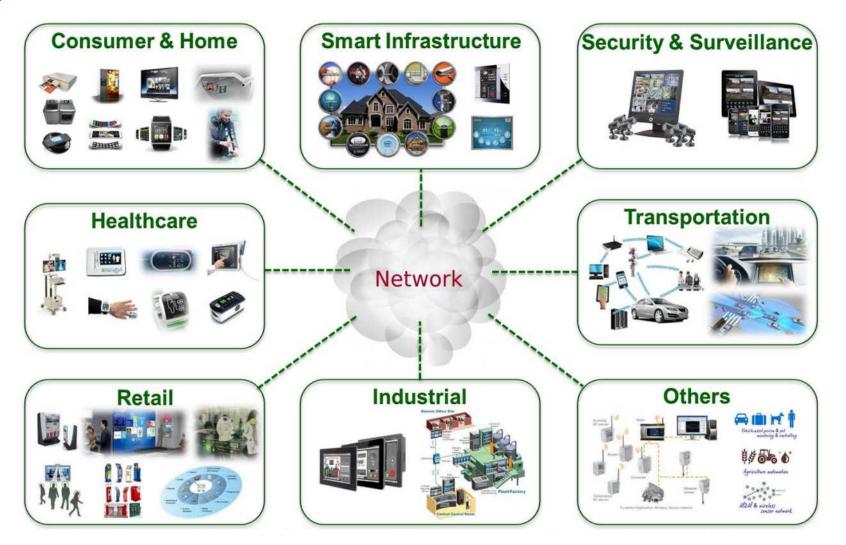
Low pin count RAM Roadmap





Low pin count RAM Application

IOT:





Low pin count RAM Application

Communication

WiFi & Bluetooth Module





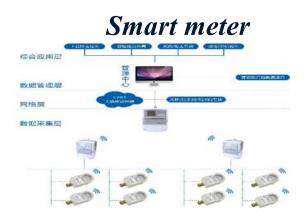
WiFi AP

Industrial









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Low pin count RAM Application

Others Bike-Sharing



E-POS



WiFi Vending Machine



Fitness Tracker



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Thanks!

