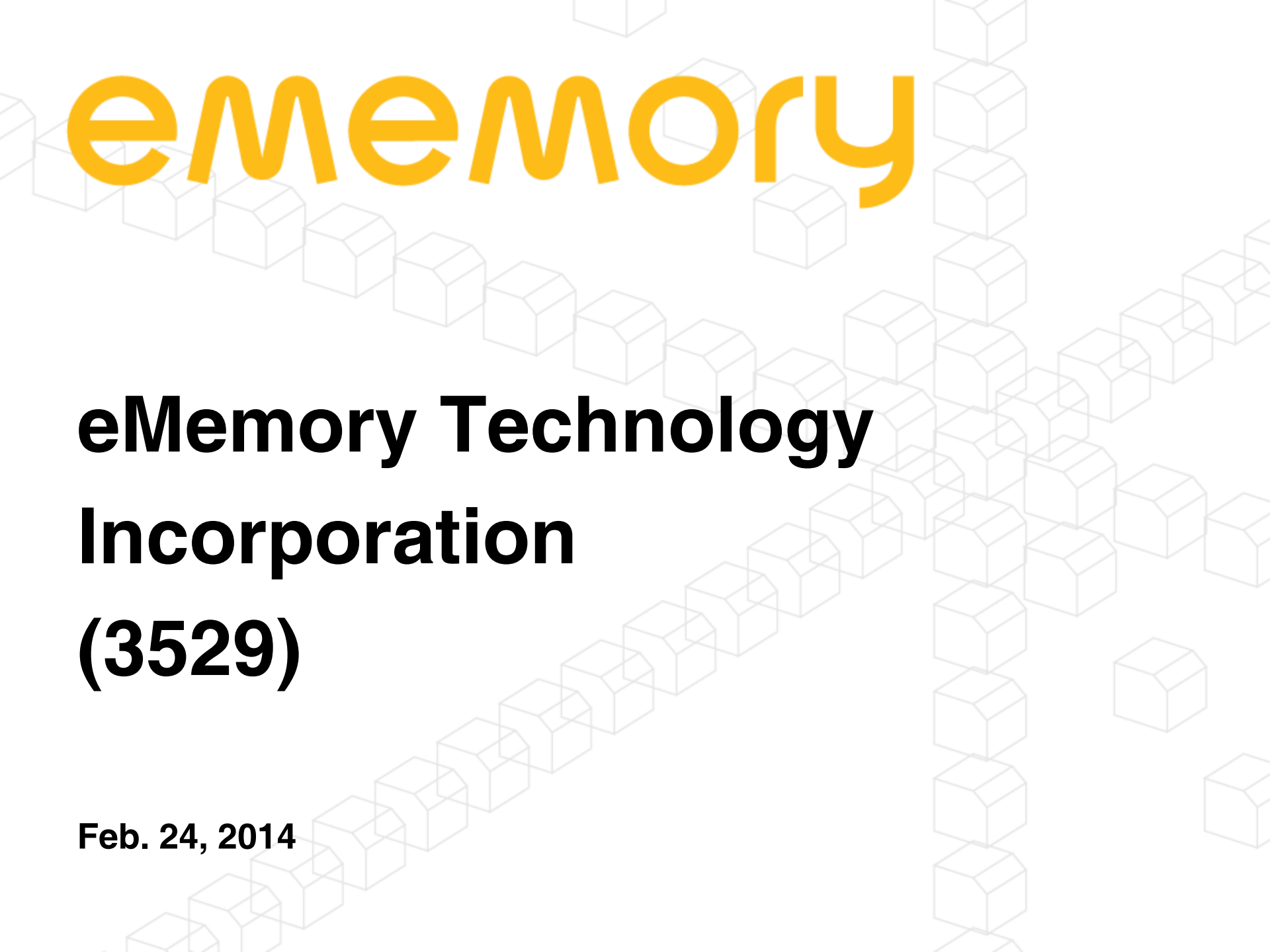


The background of the slide is filled with a pattern of white, 3D-outlined cubes. These cubes are arranged in a way that creates a sense of depth and movement, with some cubes appearing to be in the foreground and others receding into the background. The cubes are scattered across the entire slide, providing a modern, geometric aesthetic.

eMemory

eMemory Technology Incorporation (3529)

Feb. 24, 2014

IPR Notice

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Outline

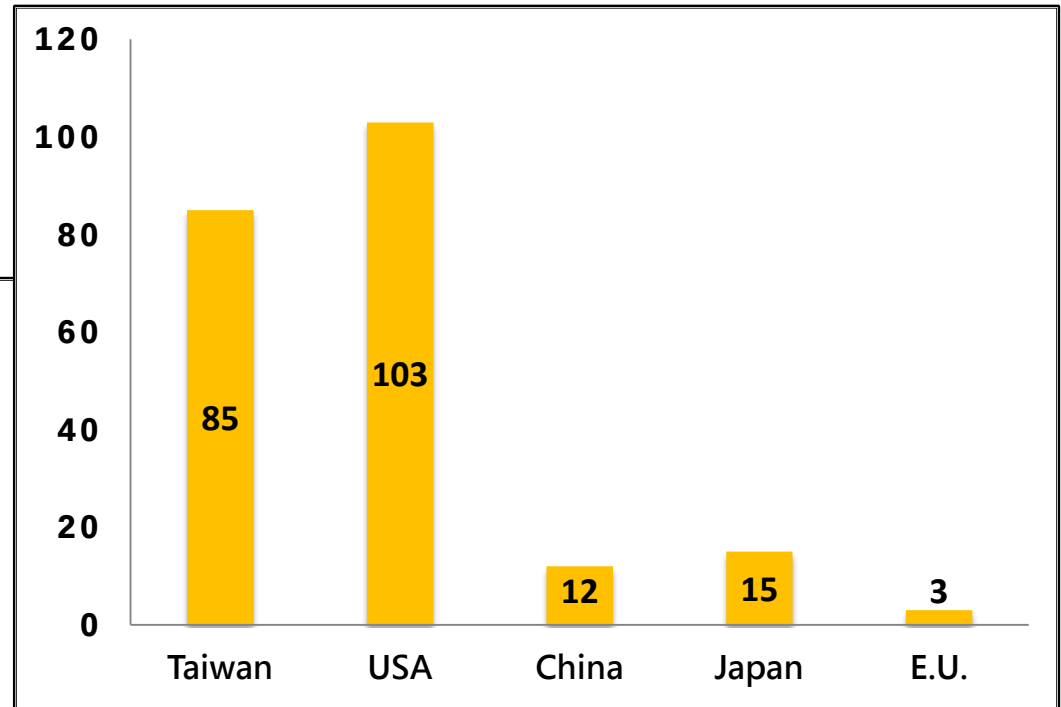
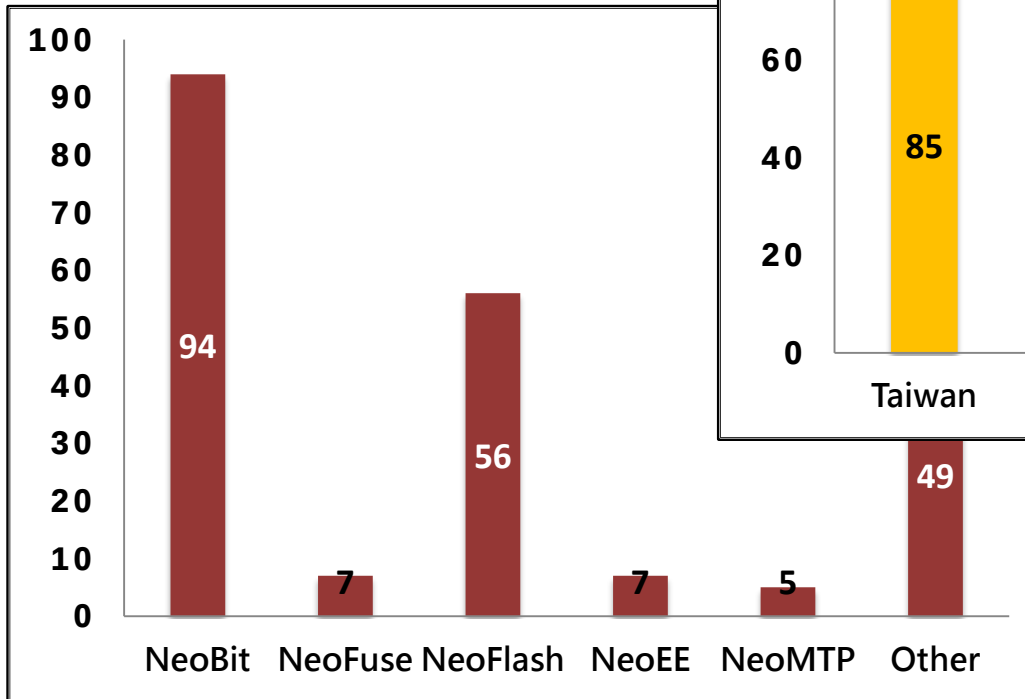
- **Company Profile**
- **Product Portfolio**
- **Operation Overview**
- **Product Applications**
- **Future Outlook**

Company Profile

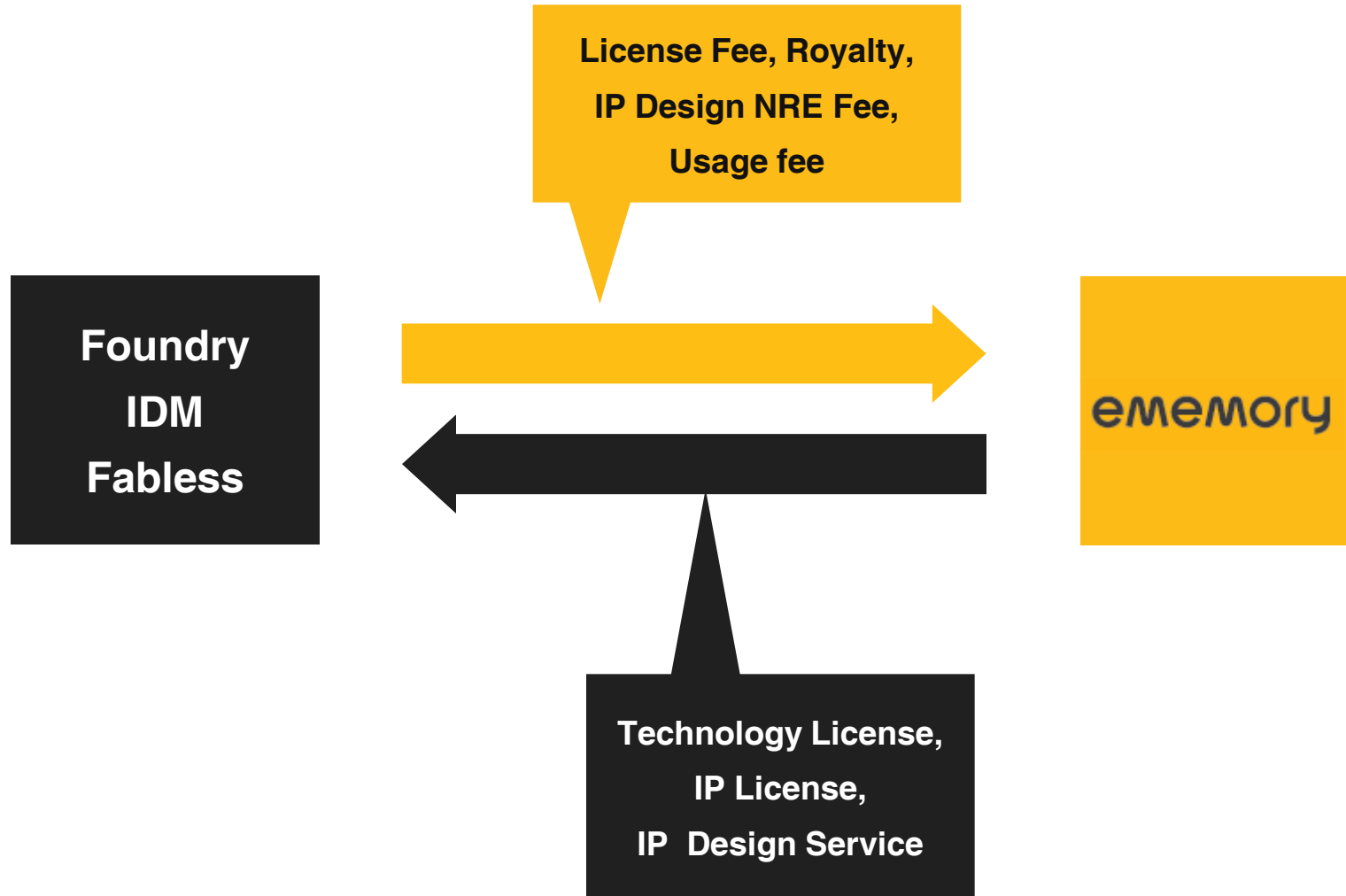
- **Company Name : eMemory Technology Inc.**
- **Date of Establishment : 2000.09.02**
- **Date of listing on GreTai Securities Market : 2011.01.24**
- **Major Product : IP technology licensing and IP technical service**
- **Paid-Up Capital : NT\$ 768,323K**
- **Number of Employees : 211 persons**

Patent Issued

Totaled 218 patents until
2013/Dec.



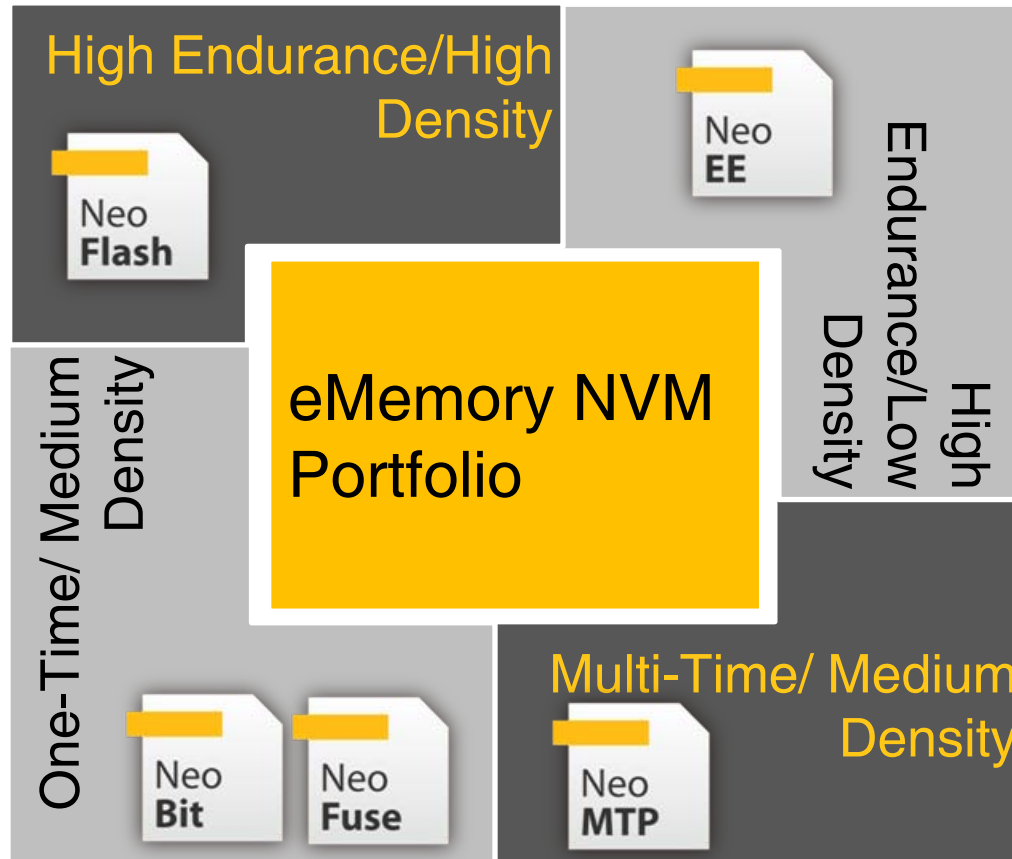
Business Model



Outline

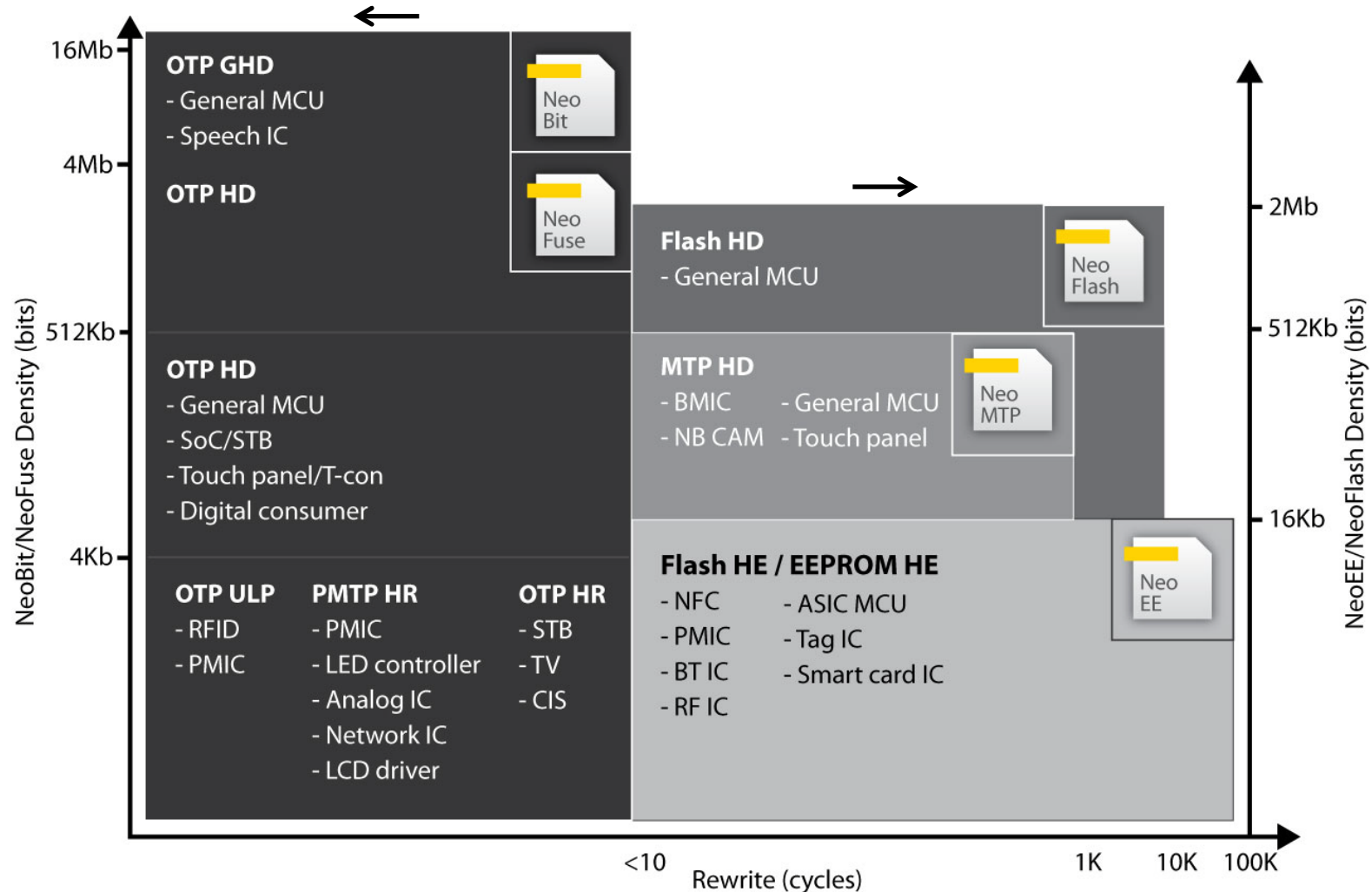
- **Company Profile**
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Product Portfolio

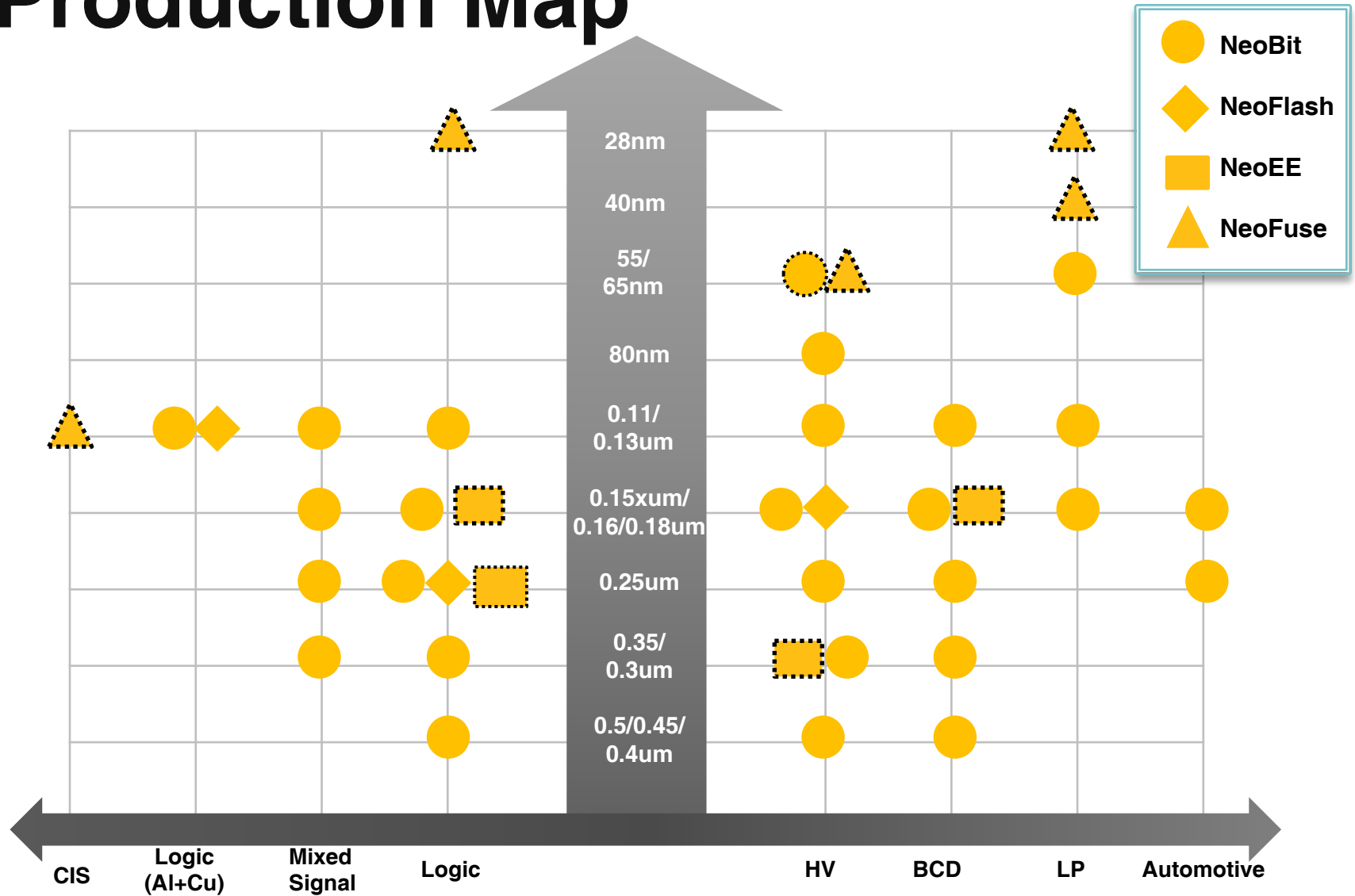


Applications of eMemory's NVM Tech

- Wide selection of embedded NVM brings up with wide application.



Production Map



Outline

- **Company Profile**
- **Product Portfolio**
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Worldwide Customers



Foundry



IDM



	Taiwan	China	Korea	Japan	North America	Europe	Others
Foundry	5	6	2	2	1	0	1
IDM	0	0	0	8	2	1	0
Fabless	191	226	38	20	115	66	32

Revenue Contribution

Unit : NTD

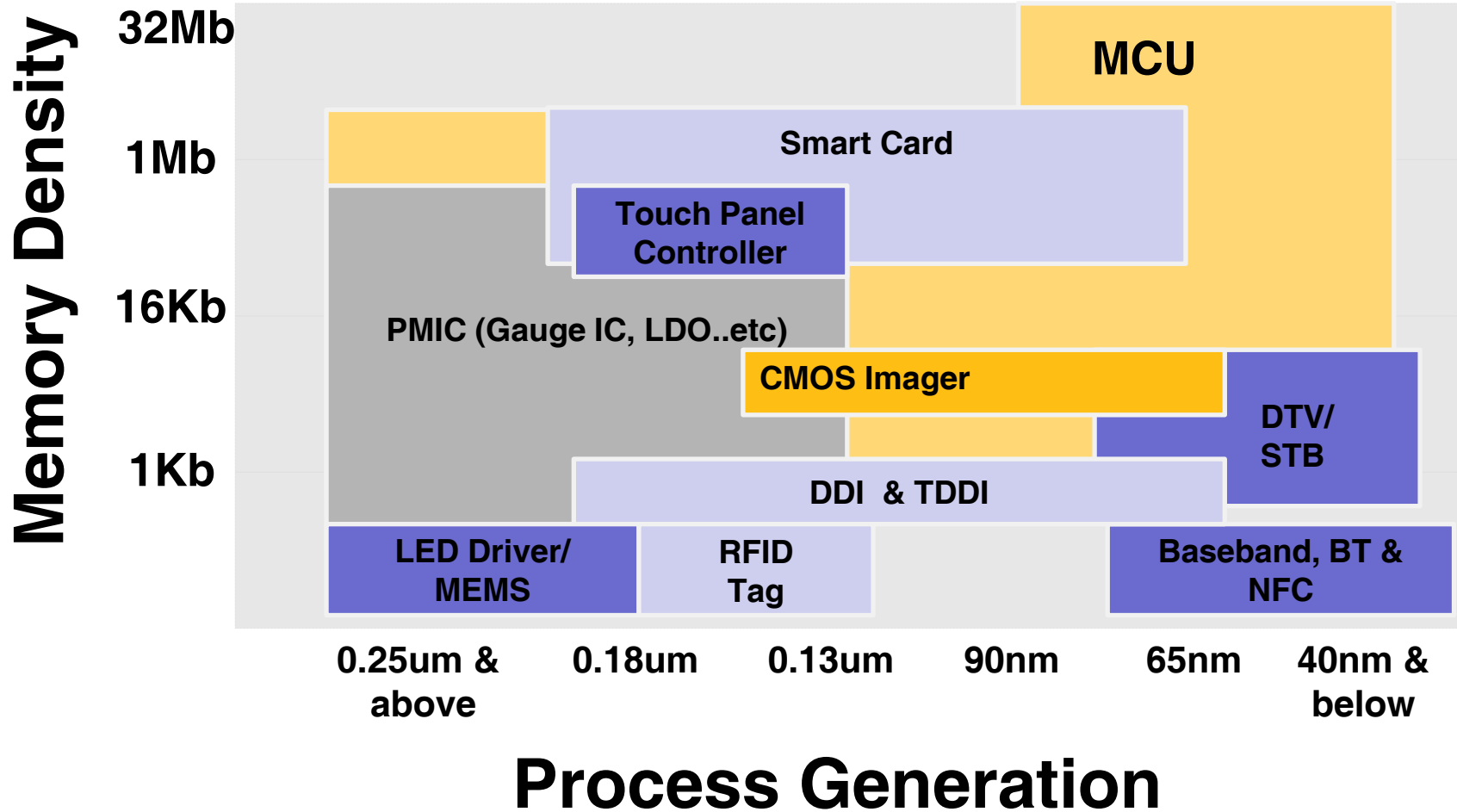
2012	Q1	Q2	Q3	Q4
Usage Fee	13,680,811	13,523,007	12,831,514	16,312,694
NRE Fee	19,490,650	18,123,371	14,101,264	9,820,958
License Fee	24,150,500	24,835,713	9,253,805	8,758,564
Royalty	100,291,035	89,923,908	115,297,903	120,047,575
IP Total	157,612,996	146,405,999	151,484,486	154,939,791

2013	Q1	Q2	Q3	Q4
Usage Fee	13,300,521	19,508,758	21,098,140	20,107,890
NRE Fee	17,358,599	16,558,735	11,555,380	17,850,628
License Fee	20,092,625	44,880,725	24,401,280	18,973,980
Royalty	114,160,341	126,491,360	148,297,470	173,621,244
Total	164,912,086	207,439,578	205,352,270	230,553,742

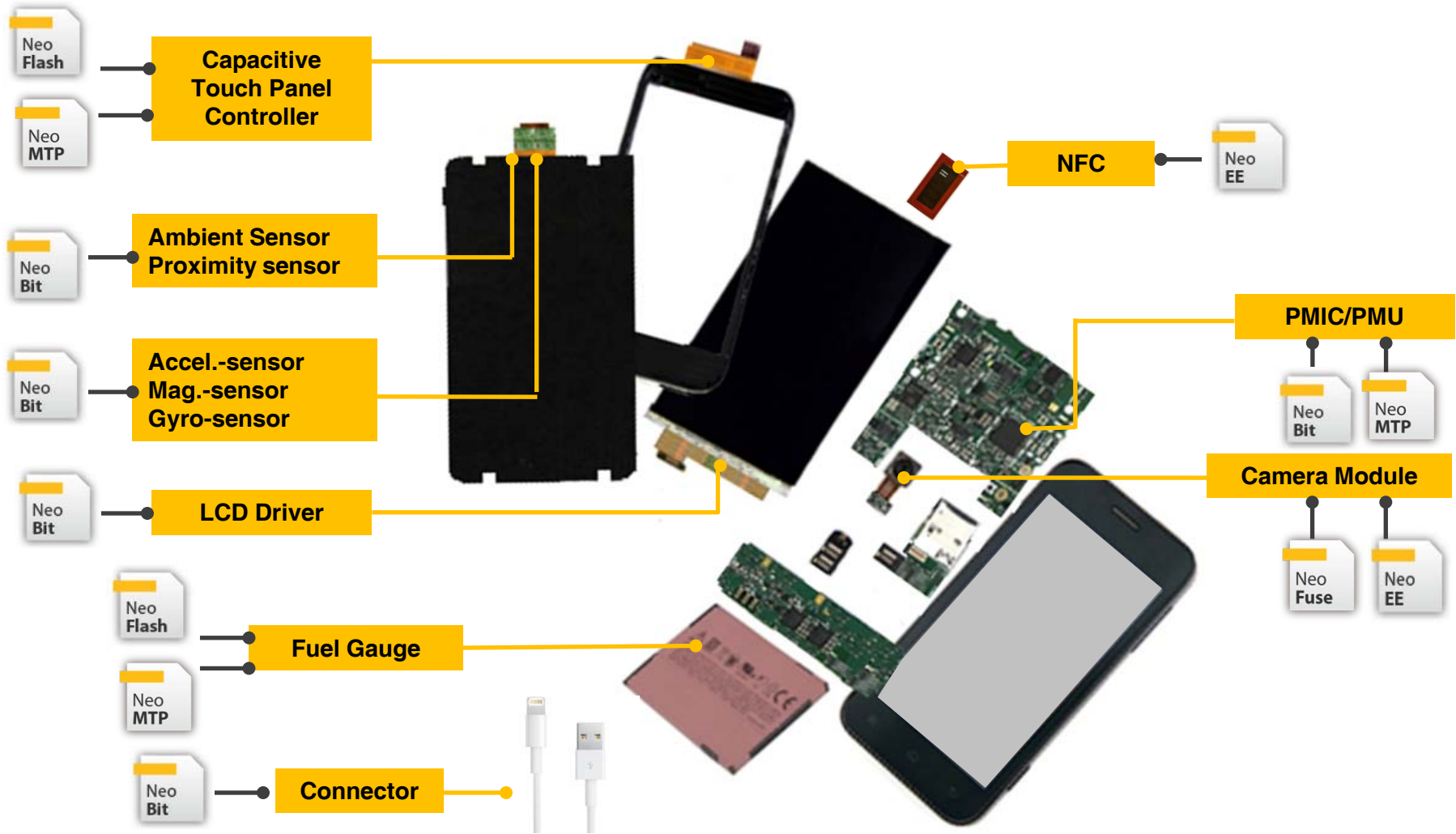
Outline

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Product Applications

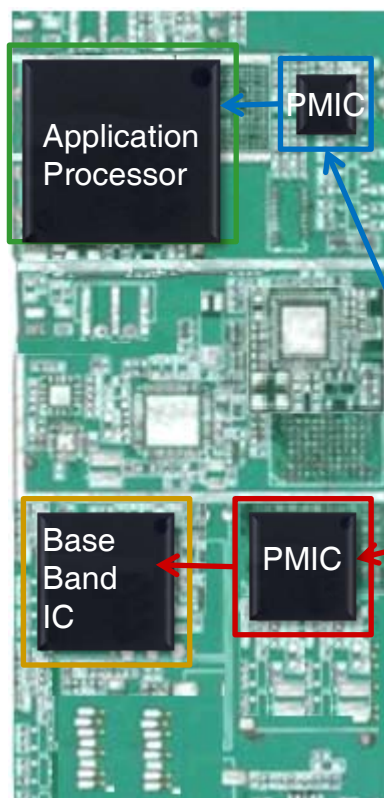


eMemory's Products in Smart Phone



Power Management ICs for Baseband and Application Processor

Process Technology : Advanced 0.25um BCD/ 0.18um BCD/ 0.13um BCD
Mature 0.18um/0.16um/0.152um Logic



Density	NVM Type	Purpose	NVM Usage
2Kb~4Kb	OTP	Trimming	DC/DC, Bandgap
		Parameter Setting	Design flexibility & Performance optimization
		Code Storage	Start-up behavior & smart power saving algorithm

PMIC



Advanced LCD Driver ICs

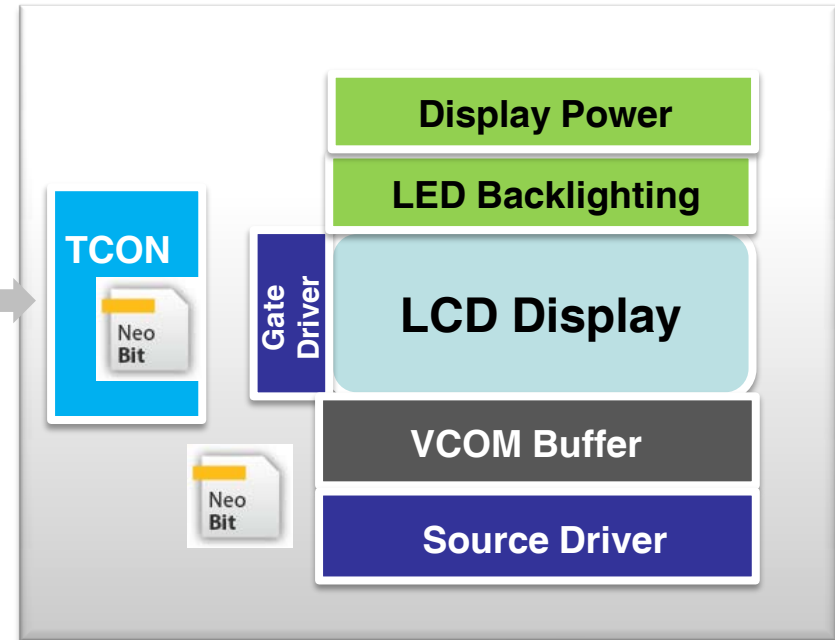
Process Technology : 0.11um HV/80nm HV/55nm HV



I/F
(LVDS, MIPI,...)



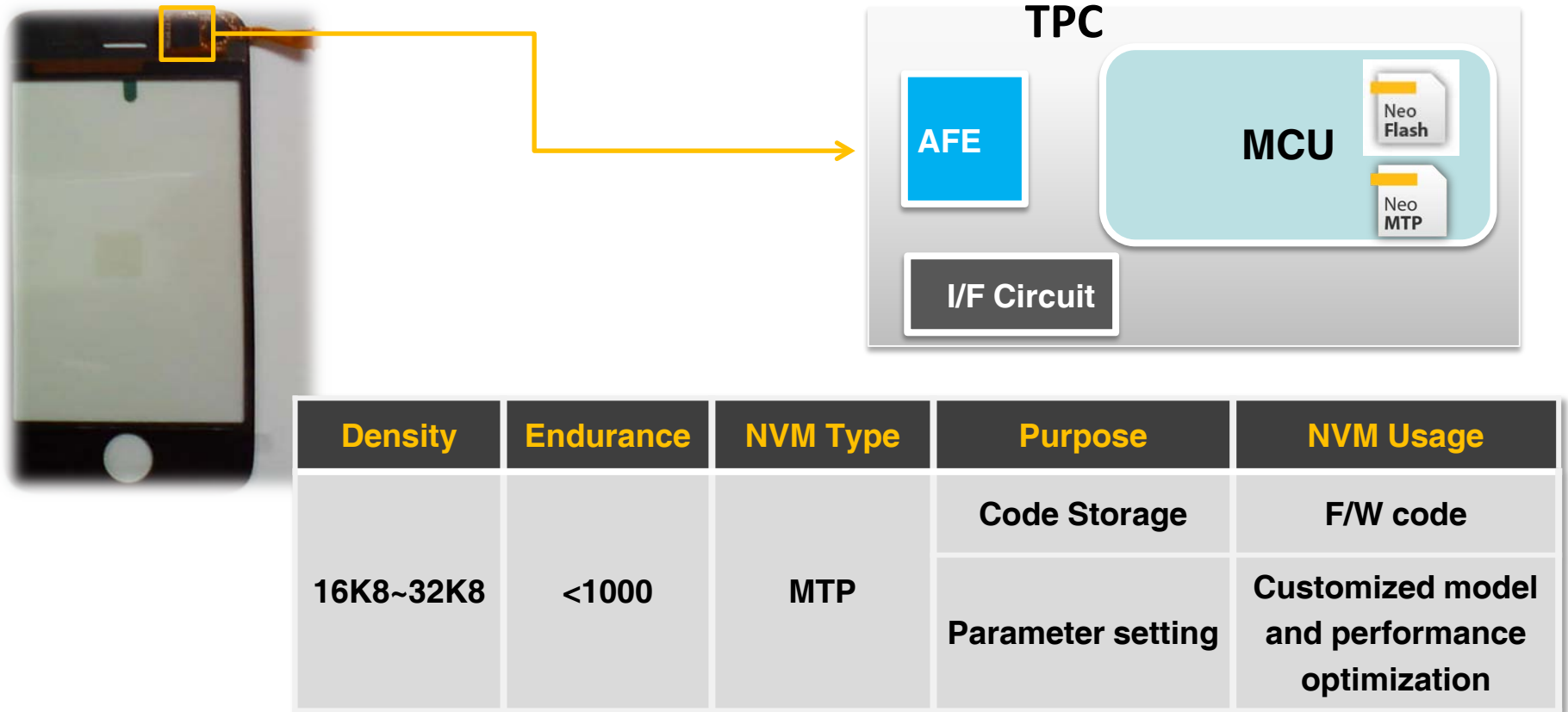
DDI



Density	Endurance	NVM Type	Purpose	NVM Usage
2K8~4K8	1	OTP	Trimming	1. Accuracy enhancement 2. Mismatch cancellation
			Code Storage	1. Gamma Correction Table 2. Timing Control Pattern 3. Color Engine Enhancement

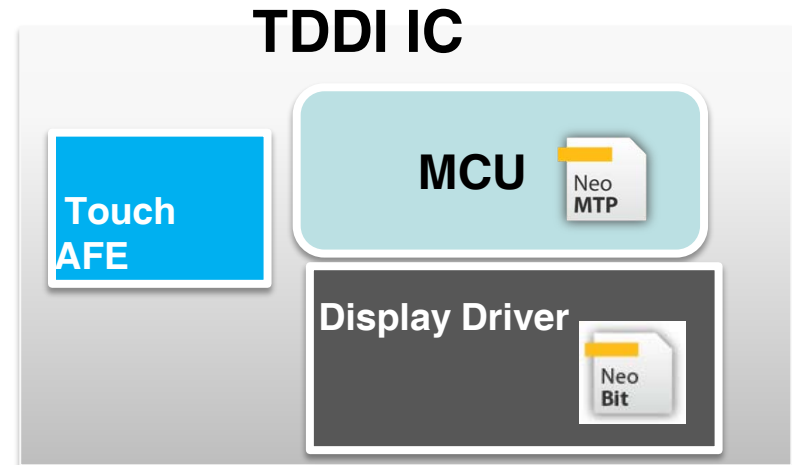
Touch Panel Controller ICs

Process Technology : 0.16um HV/0.11um G



In-Cell Touch Panel Controllers ICs

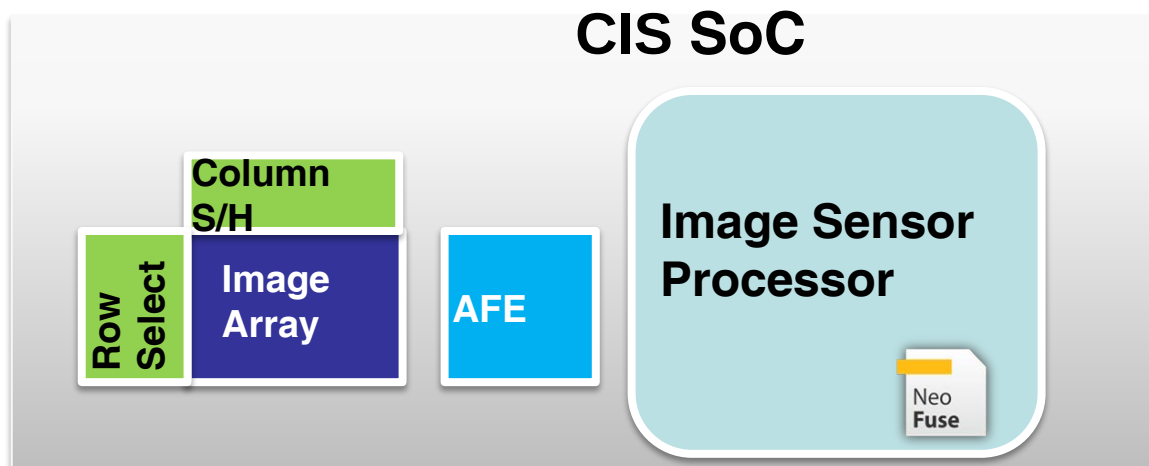
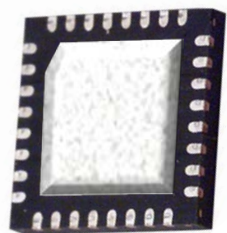
Process Technology : 0.11um HV/80nm HV/55nm HV



Density	Endurance	NVM Type	Purpose	NVM Usage
2K8~4K8	1	OTP	Trimming	Accuracy
			Code Storage	Gamma Table
16K8~32K8	<1000	MTP	Code Storage	Touch F/W Code
			Parameter setting	Performance Optimization

CMOS Image Sensor

Process Technology : 0.11um CIS/90nm CIS/65nm CIS



Density	Endurance	NVM Type	Purpose	NVM Usage
2Kb~4Kb	1	OTP	Identification Setting	Product code
			Parameter Setting	Start-up initial setting
32K8	1	OTP/ROM	Code Storage	Boot load

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Growth Momentum for 2014 – 2016

2014

- Mobile Device PMIC 、 DDI 、 MEMS 、 TPC 、 CIS 、 BMIC 、 Source-Driver IC
- MCU
- 2.4GHz RFIC 、 BT
- STB 、 T-Con
- P-Gamma

2015

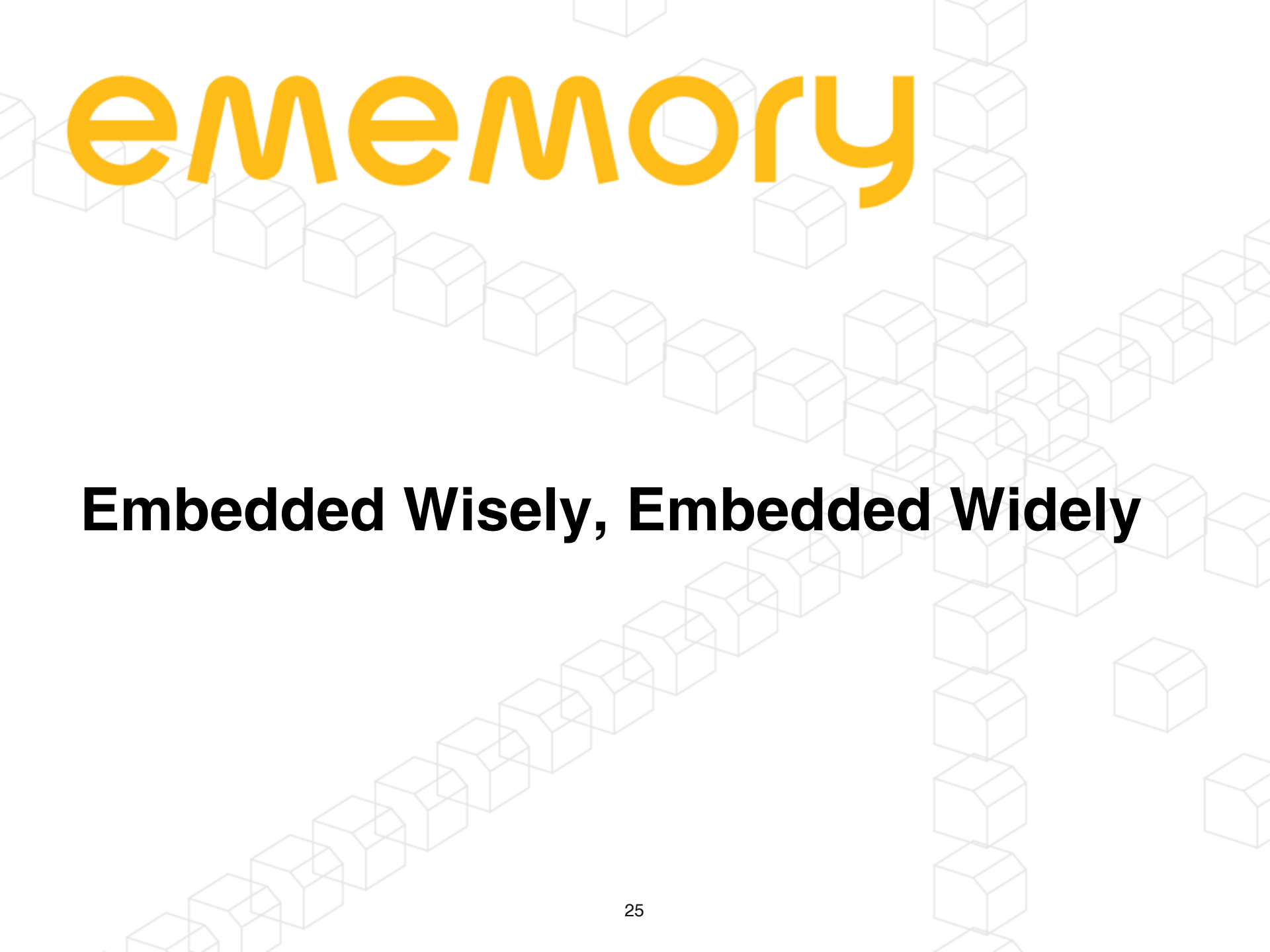
- Mobile Device PMIC 、 DDI 、 MEMS 、 TPC 、 CIS 、 BMIC 、 Source-Driver IC 、 **Server PMIC 、 TDDI**
- MCU
- 2.4GHz RFIC 、 BT 、 **NFC**
- T-Con 、 STB 、 **DTV 、 Card Controller**
- P-Gamma
- **Smart Card 、 RFID-Tag**

2016

- Mobile Device PMIC 、 DDI 、 MEMS 、 TPC 、 CIS 、 BMIC 、 Source-Driver IC 、 Server PMIC 、 TDDI
- MCU 、 **IoT related**
- 2.4GHz RFIC 、 BT 、 NFC
- DTV 、 T-Con 、 STB 、 Card Controller
- P-Gamma
- Smart Card 、 RFID-Tag
- **Automotive**

Summary

- **eMemory provides the comprehensive LOGIC NVM SIP product lines.**
- **The annual number of wafer production embedded with eMemory's SIP will continue to grow.**
- **Look into the near future, eMemory's SIP market share and new applications market penetration rate will continue to increase. The revenues are predicted to grow accordingly.**



ememory

Embedded Wisely, Embedded Widely