



### Solution Summary

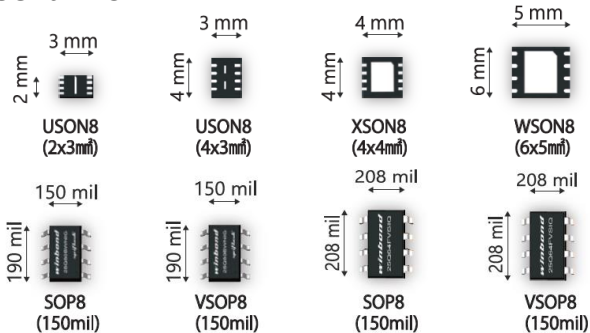
Winbond provides a total memory solution including NOR Flash, NAND Flash and DRAM suitable for the [RZ family](#) that requires external memory.

### Features/Benefits

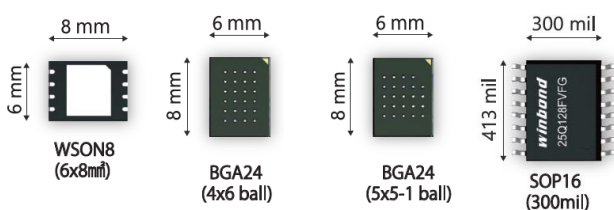
- Serial NOR: Quad / Octal SPI, 512Kb~2Gb, 1.8V and 3.3V, 100K cycles endurance
- Serial NAND: Quad / Octal SPI, 512Mb~4Gb, 1.8V and 3.3V, 100K cycles endurance
- ONFI NAND: ONFI 1.0, 1Gb~8Gb, 1.8V and 3.3V
- SDRAM: DDR1/2/3 16Mb~4Gb, LPDDR1/2/3/4/4x 128Mb~8Gb
- HyperRAM™: HyperBus, 32Mb~512Mb, 1.8V

### Diagrams/Graphics

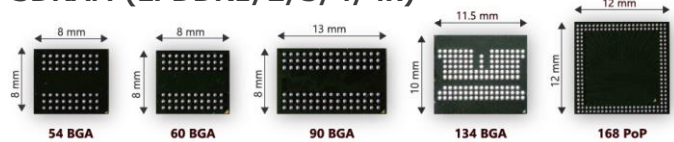
#### Serial NOR



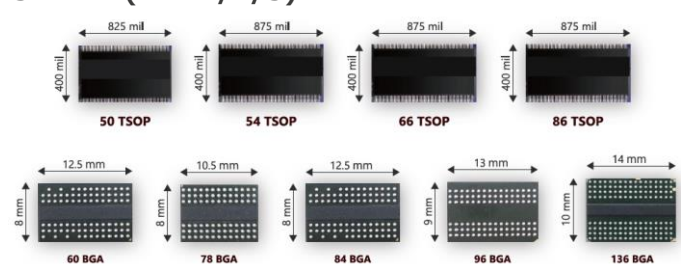
#### Serial NOR & Serial NAND



#### SDRAM (LPDDR1/2/3/4/4x)



#### SDRAM (DDR1/2/3)



### Target Markets and Applications

- Industrial Controls
- Smart Home
- Home Appliance
- Smart Buildings
- Consumer Electronics



## A trusted supplier of advanced memory products

From R&D through advanced manufacturing to dedicated customer service, Winbond Electronics Corporation is a total memory solutions provider.

Winbond's product portfolio consists of specialty DRAM, mobile DRAM, code storage Flash memory, and TrustME® secure Flash memory products. The company serves customers in the communications, consumer electronics, automotive, industrial, and computer peripherals markets, supplying its products directly or via a global network of authorized distributors.

Winbond's headquarters are in the Central Taiwan Science Park, and it operates wafer fabrication plants in Taichung and Kaohsiung in Taiwan. Subsidiaries in the USA, Japan, Israel, China and Hong Kong perform marketing operations and provide direct support to customers.

Winbond's combination of advanced semiconductor technologies developed in-house and close relationships with customers support its position as a trusted supplier of memory products.

Company Name	Winbond Electronics Corporation
Date of Establishment	1987-09-29
Chairman	Arthur Yu-Cheng Chiao
Vice Chairman	Thung-Yi Chan
President	Pei-Ming Chen
Capital Stock	39.8 billion Taiwan dollars (as of October 2020)
Number of employees	3048 (as of October 2020)
Headquarters Location	No. 8, Keya 1st Rd.,Daya Dist.,Central Taiwan Science Park, Taichung City 42881, Taiwan
Overseas Branches	USA, Japan, Israel, China, Hong Kong, Germany

