


## Your Complete Solutions Provider

# W74M Authentication Flash

*The simplest and quickest way to add "multi-layer authentication" into your existing designs*

## General Description

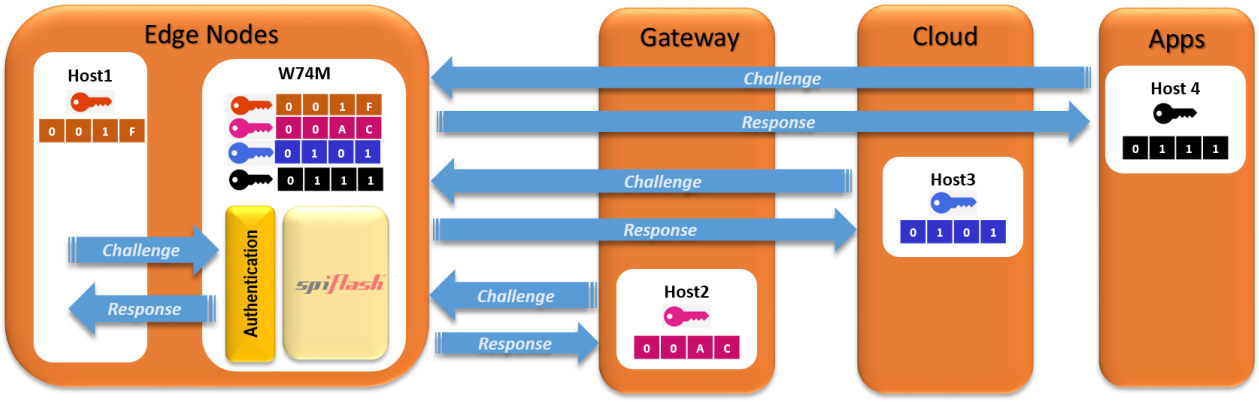
Winbond W74M product family comes with standard HMAC-SHA-256 crypto accelerator and 4 separate Monotonic Flash Counters that are HMAC-signed by individual secret keys. System utilizing each Monotonic Flash Counter can not only verify the integrity and authenticity of the counter values, but also add a timestamp to the message/information transmitted with the resistance to reply attacks. W74M enables system designers to strengthen code/data storage as well as delivers increased security for the emerging IoT demanding multi-layered authenticity.

## Applications

- Emerging IoT demanding multi-layered authenticity
- Mobile accessories
- Home automation
- Industrial control
- Smart home

## Use Cases

- PCBA anti-copy
- Anti-cloning to module and the whole design
- IP/Software Protection
- Root of trust




深圳市满度科技有限公司
Web:www.manduic.com
Tel:150-1290-5940
Email:sales@manduic.com
微信扫码咨询客服

# *Package Information*

| Voltage | Flash Density | Part number | Package |
|---|---|---|---|
| 3V | 1Gb | W74M01GV | WSON 8X6-mm |
| | 512Mb | W74M51JV | WSON 8X6-mm |
| | 256Mb | W74M25JV | WSON 8X6-mm |
| | 128Mb | W74M12JV | WSON 6X5-mm |
| | 64Mb | W74M64JV | SOIC8 208-mil |
| | 0Mb | W74M00AV | SOIC8 150-mil |
| 1.8V | 1Gb | W74M01GW | WSON 8X6-mm |
| | 512Mb | W74M51NW | WSON 8X6-mm |
| | 256Mb | W74M25JW | WSON 8X6-mm |
| | 128Mb | W74M12JW | WSON 8X6-mm |
| | 64Mb | W74M64JW | WSON 6X5-mm |
| | 0Mb | W74M00AW | SOIC8 150-mil |

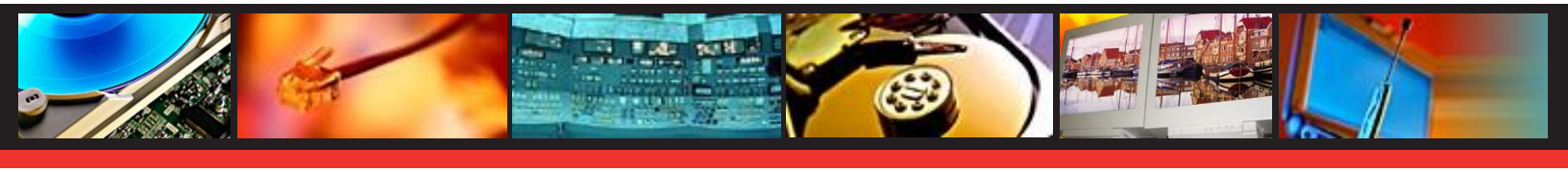
* See data sheet for further technical information. This is subject to change without notice.

# *Own Logic and Memory Technology*

Winbond Electronics Corp. is an Integrated IC Company engaged in IC design, manufacturing and sales services. From product design, research and development, wafer fabrication to marketing of brand name product, Winbond endeavors to provide its global clientele top quality of low to medium density memory solutions.

# *Own 12-inch Fab*

Winbond specializes in the design of high-performance, low-power memory, and riding on the strength of having a 12-inch fab, offers a whole series of SLC code storage NAND flash memory and Mobile DRAM. The in house wafer fabrication provides customers with full commitment in capacity support as well as delivery flexibility.



winbond

Corporate Headquarter
No. 8, Keya 1st., Daya Dist., Taichung City 428, Taiwan
Tel: 886-4-25218168
Email: mkt_online@winbond.com

Winbond Electronics Corporation America
2727 North First Street, San Jose, CA 95134, U.S.A.
Tel：1-408-943-6666

www.winbond.com

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深圳市满度科技有限公司
Web:www.manduic.com
Tel:150-1290-5940
Email:sales@manduic.com