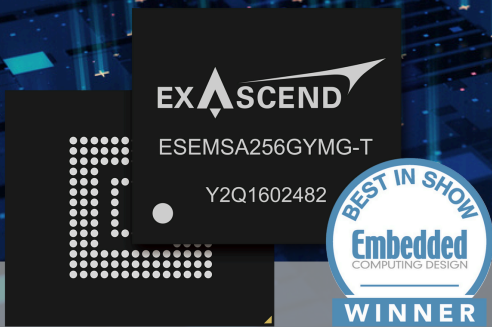




Reliable eMMC Storage for Automotive and Connected Devices



eMMC 5.1. HS400
153-Ball FBGA package

AEC-Q100 Grade 2 Certified
Up to R290/W205 MB/s
Sequential Performance



Versatile Temperature Range

Available in standard (-25°C ~ +85°C), wide (-40°C ~ +85°C), and extreme (-40°C ~ +105°C) options to support various environments, from consumer electronics and smart home appliances to industrial and automotive conditions.



Rigorously Tested for Quality Assurance

The EM500 Series meets stringent standards, including PPAP and AEC-Q100 Grade 2 certification, and is manufactured on an IATF 16949-certified line, ensuring exceptional reliability for demanding environments.



Tailored Endurance with Advanced NAND Flash

Choose from 3D TLC, 2D MLC, or pSLC NAND, offering flexible endurance and performance options to suit your application's needs.



Customizable Firmware

Our expert engineering team offers customizable firmware* to meet specific application requirements, with long-term support for ongoing compatibility.

*EM500 Series only.



Optimized for Reliability and Performance

Featuring advanced technologies such as LDPC-based ECC, firmware power loss protection, global wear leveling, IOPS optimization, read disturb protection, Secure Erase, Write Protection, and more.



Seamless Integration with Leading Platforms

Compatible with popular platforms such as MediaTek MT8163, MT6753, Qualcomm S801, Intel Cherry Trail, Apollo Lake, and Celeron N4000.**


**For the latest compatibility details, visit Exascend's website.


Product Specifications

Series	EM100		EM300		EM500	
Interface	eMMC 5.1. HS400		eMMC 5.1. HS400		eMMC 5.1. HS400	
Flash Type	3D TLC	2D MLC	3D TLC	2D MLC	3D TLC	pSLC
Capacity	16GB ~ 128GB	4GB / 8GB	16GB ~ 128GB	4GB / 8GB	32GB ~ 256GB	4GB ~ 16GB
Endurance (TBW)	up to 305TB	up to 23TB	up to 305TB	up to 23TB	up to 614TB	up to 382TB
Seq. R/W	295/197 MB/s	250/115 MB/s	295/197 MB/s	250/115 MB/s	295/210 MB/s	280/205 MB/s
Op. Temp	-25°C ~ +85°C	-25°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +105°C (AEC-Q100 Grade 2)	-40°C ~ +105°C (AEC-Q100 Grade 2)
Warranty	3 years	3 years	3 years	3 years	3 years	3 years
Firmware PLP	v	v	v	v	v	v
LDPC ECC	v	v	v	v	v	v
Secure Erase	v	v	v	v	v	v
Firmware Read Disturb	v	v	v	v	v	v
Field Firmware Update (FFU)					v	v
Ordering Information	EEMSA016GY BG EEMSA032GY BG EEMSA064GY BG EEMSA128GY BG	EEMSA004GQ BG EEMSA008GQ BG	EEMSA016GY BG-I EEMSA032GY BG-I EEMSA064GY BG-I EEMSA128GY BG-I	EEMSA004GQ BG-I EEMSA008GQ BG-I	EEMSA032GY MG-T EEMSA064GY MG-T EEMSA128GY MG-T EEMSA256GY MG-T	EEMSA004GP MG-T EEMSA008GP MG-T EEMSA016GP MG-T

Contact Us



 exascend.com

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