

ADAS & Data Logging



Engineered for the auto industry of the future

Advanced driver-assistance systems (ADAS) are central to the future of driving, improving car and road safety while making driving more enjoyable than ever before.

Overview

ADAS demands not only incredible storage capacities to store all the data generated by the system but also unrelenting storage performance that can keep up with a constant flood of data.

Challenges

Data challenge

ADAS generate extreme amounts of data through their numerous sensors, LiDAR, cameras and more.
More accurate systems = more data = higher data rates and larger storage capacities required.

Power & thermal challenge

Powerful ADAS hardware means high power-draw, and compact ADAS systems and high power-draw means high temperatures.

Environmental challenge

These challenges include extreme temperatures, sudden temperature swings, vibrations, shocks and pressure - both continuous and sudden, In addition, there's particles, contaminants, pollution, and humidity.

Solutions

- High-capacity storage in a variety of form factors
- Exclusive technologies for optimized thermals and performance: Adaptive Thermal Control™ & SuperCruise™
- Compliance with the MIL-STD-810 standard: 50Gs of shock protection & 10GRMs of vibration resistance
- Underfill and conformal coating technologies for improved longevity
- Industrial-grade wide operating temperature support: unwavering performance under extreme temperatures from -40°C to 85°C
- Data protection and security: our self-encrypting drives (SEDs) support TCG Opal 2.0, AES-256 encryption, BitLocker, IEEE 1667, and boot authentication



U.2
Up to 16 TB



E1.S
Up to 8 TB



M.2 2280
Up to 8 TB



2.5"
Up to 8 TB



e.MMC
Up to 128 GB



M.2 2230
Up to 1 TB



M.2 2242
Up to 2 TB



mSATA
Up to 2 TB



CFexpress
Up to 2 TB



CFast
Up to 1 TB

Certification

IATF 16949-certified

Exascend's solid-state drives became officially IATF 16949:2016 certified in 2022, confirming the company's full compliance with the rigorous automotive requirements and international standards.

Recommended Products

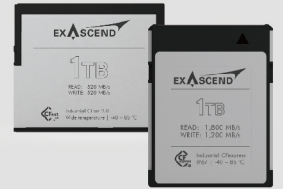
PA4 series

- PCIe 4.0 interface
- 3D TLC flash
- Automotive-grade design
- Up to 3,500 MB/s read
- Up to 3,000 MB/s write



Industrial CFexpress/CFast

- CFexpress Typa B / CFAST 2.0
- 3D TLC flash
- Industrial-grade design
- Up to 1,024 GB



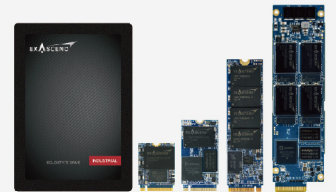
SA4 series

- SATA-III interface
- 3D TLC flash
- Automotive-grade design
- Up to 550 MB/s read
- Up to 535 MB/s write



PI4 series

- PCIe 4.0 interface
- 3D TLC flash
- Industrial-grade design
- Up to 3,500 MB/s read
- Up to 3,000 MB/s write



Success Stories

E1.S 4 TB

- Application: Data logger on fighter aircraft
- Wide temp. -40°C - 85°C support
- Conformal coating
- PLP support



U.2 8 TB

- Application: Data logging & testing equipment for autonomous vehicle manufacturers
- 1,600 MB/s sustained write speed
- MIL-STD-810G compliant
- PLP support
- Full disk encryption, compliant with the TCG Opal 2.0 specification



M.2 2280 4 TB

- Application: ADAS data logger
- Extended temp. -20°C -85°C support
- 1,600 MB/s sustained write speed
- Full disk encryption, compliant with the TCG Opal 2.0 specification



Testimonials

For years, our customer care and first-class technical support have been the secret to GLYN's success. Now, by working with Exascend – a competent and flexible manufacturing partner – we are able to deliver individualized solutions to an extensive customer base across varied markets.

We knew Exascend and GLYN were a great match from the get-go. The union allows us to offer new form factors and interfaces fully tailored to our customers' demanding requirements and provide the best solutions possible.



Conclusion

Exascend is a team of storage industry veterans who had a vision of a better storage provider. Combining technology leadership with a passion for innovation and service, we created Exascend – a total storage solutions provider uniquely committed to its customers and solving the storage challenges of the future.

Having a team of passionate hardware and firmware experts coupled with our unique strategic partnership with Marvell Technology, we are able to meet the various requirements of automotive clients through our customized ADAS solutions, no matter their form factor, capacity, use scenario, data security and data integrity needs.