



# ATP CFast Card

## Industrial Grade Flash Memory Cards

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



ATP CFast cards combine the convenient and trusted format of CompactFlash with the speed, capacity and performance of SATA III, while maintaining backward compatibility with other SATA versions.

They are recommended as boot and storage devices in embedded and industrial applications such as avionics/aerospace, automation, marine navigation, telecommunication/networking and medical equipment where mission-critical data requires the highest level of reliability, durability and data integrity.

Special features and technologies include: PowerProtector, which provides a hardware-based backup power circuit during a power failure; Advanced Wear Leveling for higher endurance and longer product life span; ECC (error correction code) and AutoRefresh technologies, which correct and monitor the error bit levels to ensure data integrity in frequently read areas, and S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) function for easy monitoring of various device health parameters to help predict storage failure for preventive action.

### Key Features

- Advanced wear leveling algorithm
- Bad block management
- AutoRefresh technology
- PowerProtector
- S.M.A.R.T support

### Applications

- Portable computation
- Automation
- Industrial PC
- Gaming
- On board data storage



## Specifications

| Product Name                     |                               | CFast Card        |                 |                 |
|----------------------------------|-------------------------------|-------------------|-----------------|-----------------|
| Product Line                     |                               | Premium           | Superior        |                 |
| Naming                           |                               | A800Pi            | A600Si          | A600Sc          |
| Flash Type                       |                               | SLC               | iTemp MLC       | MLC             |
| Density                          |                               | 8 GB to 32 GB     | 16 GB to 128 GB | 16 GB to 128 GB |
| Performance                      | Sequential Read up to (MB/s)  | 500               | 510             | 510             |
|                                  | Sequential Write up to (MB/s) | 300               | 175             | 175             |
|                                  | Random Read IOPS up to        | 35,800            | 29,400          | 29,400          |
| Interface                        |                               | SATA III 6 Gb/s   |                 |                 |
| Operating Temperature            |                               | -40°C to 85°C     | -40°C to 85°C   | 0°C to 70°C     |
| Endurance                        | TBW* (max.)                   | 2,667 TB          | 267 TB          | 320 TB          |
|                                  | DWPD* (max.)                  | 46.8              | 2.9             | 3.5             |
|                                  | MTBF @ 25°C                   | >2,000,000 hours  |                 |                 |
| Reliability Number of Insertions |                               | 10,000 minimum    |                 |                 |
| Dimensions: L x W x H (mm)       |                               | 36.4 x 42.8 x 3.6 |                 |                 |

\* Under highest Sequential write value. May vary by density, configuration and applications.

| Technologies & Add-On Services |          | Life Monitor | Sudden Power-Off Recovery | Advanced Wear Leveling | AutoRefresh | Dynamic Data Refresh | Secure Erase | Industrial Temperature | Anti-Sulfur Resistors | Conformal Coating |
|--------------------------------|----------|--------------|---------------------------|------------------------|-------------|----------------------|--------------|------------------------|-----------------------|-------------------|
| Product Line                   | Premium  | ●            | ●                         | ●                      | ●           | ●                    | ●            | ●                      | Δ                     | Δ                 |
|                                | Superior | ●            | ●                         | ●                      | ●           | ●                    | ●            | Δ                      | Δ                     | Δ                 |

Δ: Customization option available on a project basis.

To learn more about this product, contact your ATP Representative.

### ATP Global Footprint

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