



CF-S Series Product Information

General Description

Envoy Data's flash product adheres to the latest industry compliance and regulatory standards including UL, FCC, and RoHS. Each device incorporates a state-of-the-art flash memory controller that provides the greatest flexibility to customer applications while supporting key flash management features resulting in the industry's highest reliability and endurance.

Key features:

- Built-in 4-symbol Reed-Solomon ECC engine detects and corrects errors
- Sophisticated block management and wear leveling algorithms dramatically enhance flash memory endurance
- Supports reliable high performance Single Level Cell (SLC) NAND flash technology
- Lifecycle management feature allows users to monitor the device's block management

Envoy Data's CF Card is for applications requiring high reliability and high tolerance to shock, vibration, humidity, altitude, ESD, and temperature. The rugged industrial design combined with temperature testing and adherence to rigid JEDEC JESD22 standards ensures flawless execution in the harshest environments. In addition to custom hardware and firmware designs, EnvoyData also offers value-added services:

- Custom labeling and packaging
- Custom software imaging and ID strings
- Full BOM control and product change notification

Storage Capacities: • 256MB, 512MB, 1GB, 2GB, 4GB, 8GB, 16GB

Environment conditions: • Operating temperature: -40°C to 85°C
• Storage temperature: -55°C to 125°C

CF Compatibility: • CFA standard 3.0 compliant
• 3.3V or 5.0V single power supply
• 50 pin connector with Type-I form factor
• 256 Bytes of attribute memory

Power consumption: • 5V operation
Active mode:
Write operation: 28 mA (Typ.), 30 mA (Max.)
Read operation: 23 mA (Typ.), 30 mA (Max.)
Sleep mode: 2.0mA (max.)
• 3.3V operation
Active mode:
Write operation: 28 mA (Typ.), 30 mA (Max.)
Read operation: 23 mA (Typ.), 30 mA (Max.)
Sleep mode: 2.0mA (max.)