Technology

Staying at the forefront of technology, Kaman Precision Products (KPP) developed its Model 9700 Sentinel Series of Solid State memory products. Based on previously developed hermetic, severe environment technology for its Sentinel PC card, KPP has developed its Kaman SATA Card, high performance, SATA technology into a card similar in size to the Sentinel PC card. Features include a 256 AES “at rest” data encryption engine built into the card. The Model 9740 has (4) removable Kaman SATA cards for a total capacity of 2 TB and (4) 1GB/sec Ethernet ports to connect to the customer interface. The Model 9740 is a complete system and encompasses a Ground Station Adapter (USB interface) and Encryption Key programmer.

Capabilities

Kaman Precision Products works in concert with customer engineering groups to identify the best technology for an application and subsequently create a data transfer unit for that specific application. This begins the engineering design utilizing analytical modeling programs as well as CAD and software development models. Our Rapid Prototyping Shop produces demonstration units to be tested in customer laboratories and our engineering test group performs extensive EMI, vibration and environmental tests to assure specification adherence.

Facilities

Memory products are designed and produced at the Middletown, Connecticut facility which is qualified to AS9100/B and ISO 9001:2000, Quality Management System requirements. In Middletown, we operate a modern, air-conditioned facility of engineering, quality and administration offices along with memory products manufacturing & Maintenance, Repair and Overhaul (MRO) center and full spectrum environmental laboratory.

Memory Products

High performance ruggedized digital storage systems and media for military and aerospace applications.

Memory Products Guide - Features/Capabilities

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*Over 100Mbps Ethernet not only.
Ruggedized Memory Solutions. Let us help you choose the best digital storage system for your application

**PC Card Interface**

**Model 9410**
- **Interface:** HV Differential SCSI
- **Thruput:** 500 KB/s
- **Capacity:** Up to 64GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**Model 9415**
- **Interface:** SE SCSI
- **Thruput:** 7 MB/s
- **Capacity:** Up to 64GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**Model 9450**
- **Interface:** Dual Redundant MIL-STD-1553
- **Thruput:** 40 KB/s
- **Capacity:** Up to 4GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**Model 9420**
- **Interface:** 100Mbps Ethernet x 2
- **Dual Redundant MIL-STD-1553**:
  - **Thruput:** 7 MB/s
  - **Capacity:** Up to 256MB
- **Thruput:** 1.5 MB/s
- **Capacity:** Up to 64GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**Model 9620**
- **Interface:** RS-422
- **Thruput:** 1 KB/s
- **Capacity:** Up to 512GB
- **Power:** +3.3VDC

**Model 9515**
- **Interface:** LV Differential/SE SCSI
- **Thruput:** 1.5 MB/s
- **Capacity:** Up to 64GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**Model 9422**
- **Interface:** SATA 2.0 (3Gbps)
- **Thruput:** 250 MB/s
- **Capacity:** Up to 512GB
- **Power:** +3.3VDC

**Model 9510**
- **Interface:** HV Differential SCSI
- **Thruput:** 500 KB/s
- **Capacity:** Up to 64GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**Model 9451**
- **Interface:** LV Differential/SE SCSI
- **Thruput:** 7 MB/s
- **Capacity:** Up to 64GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**Model 9650**
- **Interface:** 1Gbps Ethernet x 3
- **Thruput:** 20 MB/s
- **Capacity:** Up to 384GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**Model 9660**
- **Interface:** 1Gbps Ethernet x 3
- **Thruput:** 20 MB/s
- **Capacity:** Up to 192GB
- **Memory/Slots:** Sentinel PC Card x 2
- **Power:** +28VDC

**KAMAN SATA Card**
- **Interface:** SATA 2.0 (3Gbps)
- **Thruput:** 250 MB/s
- **Capacity:** Up to 512GB
- **Power:** +3.3VDC

**Sentinel PC Card**
- **Thruput:** 20 MB/s
- **Capacity:** Up to 32GB
- **Power:** +3.3 or 5VDC

**KAMAN DTD Card**
- **Interface:** SATA 2.0 (3Gbps)
- **Thruput:** 250 MB/s
- **Capacity:** Up to 512GB
- **Power:** +3.3VDC

**Ground Station Adapter for Kaman DTDs**
- **Interface:** USB
- **Thruput:** 30MB/s
- **Capacity:** Up to 128 GB
- **Memory/Slots:** Kaman DTD x 1
- **Power:** +5VDC (USB)

**Ground Station Adapter for Kaman SATA Cards**
- **Interface:** USB
- **Thruput:** 30 MB/s
- **Capacity:** Up to 128 GB
- **Memory/Slots:** Kaman DTD x 1
- **Power:** +5VDC (USB)

**Encryption Key Programmer**
- **Interface:** USB
- **Power:** +5VDC (USB)

**Proven Reliability and Performance**

ISO 9001:2008 | AS9100/B | 860-632-4634 | memory@kaman.com

**Precision, ruggedized memory recording and playback systems**

Kaman Precision Memory Products has provided high-performance digital storage systems and media for military and aerospace applications for over 40 years. Kaman's dedicated project team establishes a unique working relationship with our customers to identify requirements and works to ensure that products meet or exceed all expectations.

**Experience**

Precision Products participation on hundreds of programs over four decades is indicative of the company commitment made to the memory systems marketplace. The result of being able to provide continuous high reliability and performance of such product has been the fielding of more than 50,000 memory units for more than 140 airborne, shipboard and ground tactical systems, such as the F-117, C-130AMP, C-130J, LM-100J, MH-60R, MH-60S, Blackhawk Programs, C-27, B-1A, B-1B, B-52, E-2C, AFTI-F16, F-14, F-18, EA-6B, LAMPS MK III, SH-2G, ASDS, USAV, Space Shuttle and the International Space Station.