



# MRDC-10035

MILPER's MRDC-10035, is a rugged, high capacity disk drive designed for use as plug-in unit into MILPER's MRC family of Rugged Computers, or in any enclosure for standard 3½" Device, customer's enclosure or any other removable mass storage application. The MRDC-10035 stores up to any Gigabytes of formatted data.

## Rugged Design

Ruggedized for operation in severe environments - where extreme temperatures, shock, vibration, humidity and air pressure are common - the MRDC-10035 is field proven in "on-the-move" operation in tracked and wheeled vehicles, as well as airborne application. Since no warm up time is required, near instant readiness is provided at all operating temperatures. The sealed, housing encompasses the entire drive mechanism, including electronics, isolating the drive from shock and vibration and protecting it from high humidity and changes in altitude. An embedded digital servo system automatically compensates for temperature variation, ensuring accurate, reliable head positioning over the entire operating temperatures range.

To prevent damage during handling and transport, the heads are automatically parked and secured by a locking mechanism when power is removed.

## Plug-In Design

The interchangeability of Milper's plug-in disk cartridges allows for simple removal of secure/classified data, easy changes to hardware or operating system configuration, unlimited data storage capacity, and very fast data backup.



## Features

- Operates in Severe Environments.
- Enhanced IDE / SATA Interfaces
- Embedded Digital Servo for Accurate Head Positioning.
- Plug-In Design for Greater Operational Versatility.
- Mechanically compatible with standard 3½" Device

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## Dimensions

Cartridge	Cradle	Power
Height "3.15	Height "4.00	Input Power 5VDC
Width "0.80	Width "1.00	0.3-Watt Max Consumption
Length "5.10	Length "5.90	
Weight 420gr.	Weight 230gr.	

The system is designed to meet the following conditions		
<b>Temperature</b>	Operating	-18 - +55 oC
	Intermittent	-20 - +65 oC
	Non-Operating	-50 - +71 oC
<b>Humidity</b>	Operating/Storage	MIL-STD-810C
	Method 507.1 Proc.	95% HR (non-condensation)
<b>Vibrations</b>	Operating	Sinusoidal 4g, 5-200Hz
	Non-Operating	Sinusoidal 6g, 5-200Hz
<b>Shock</b>	Operating	10g, 11 msec half sine
	Non-Operating	40g, 11 msec half sine
<b>EMI/RFI</b>		MIL-STD-461D
<b>Explosive</b>		MIL-5400, Par. 3.2.2.4.10
<b>Altitude</b>	Operating	12,000 ft.
	Non-Operating	40,000 ft.

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