

# High Bandwidth Storage Array

## Velocity® High Bandwidth Compressing Solid-State Storage Array

### Description

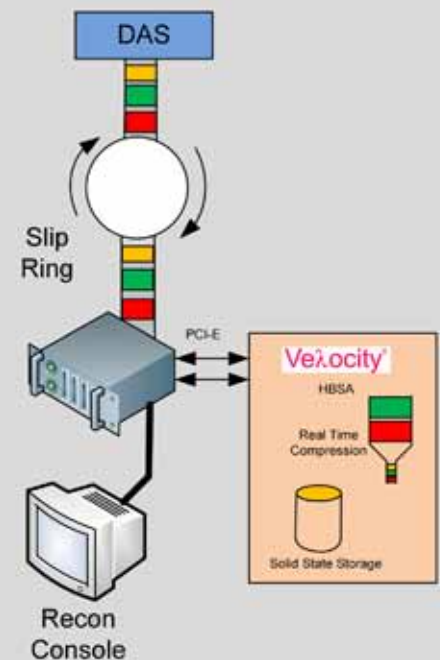
The Velocity® high bandwidth solid-state storage array was developed to remove the limitations of using arrays of spinning storage media for large high performance arrays. By using proprietary hardware architecture and Simplify® compression software, the array can sustain large continuous write speeds without the normal performance bottlenecks that spinning drives suffer. Long life and low power consumption is assured by using solid-state memory and a proprietary error correction system. Specially designed for the medical imaging community, the array uses error correction algorithms to assist in the wear leveling of the solid-state memory. Should an element need to be replaced, the modular design allows for quick field replacement of any defective elements in the array. The unit fits into a standard 19 inch (482.6 mm) rack and only occupies 1 U of vertical space.

### Features

- Sustained write speeds of greater than 36 Gb/s
- Long life, single level solid-state flash storage
- Modular memory elements for easy service
- Simplify® compression technology with configurable compression ratios
- Green technology, low power consumption and acoustic noise



### Installed on Stationary Side



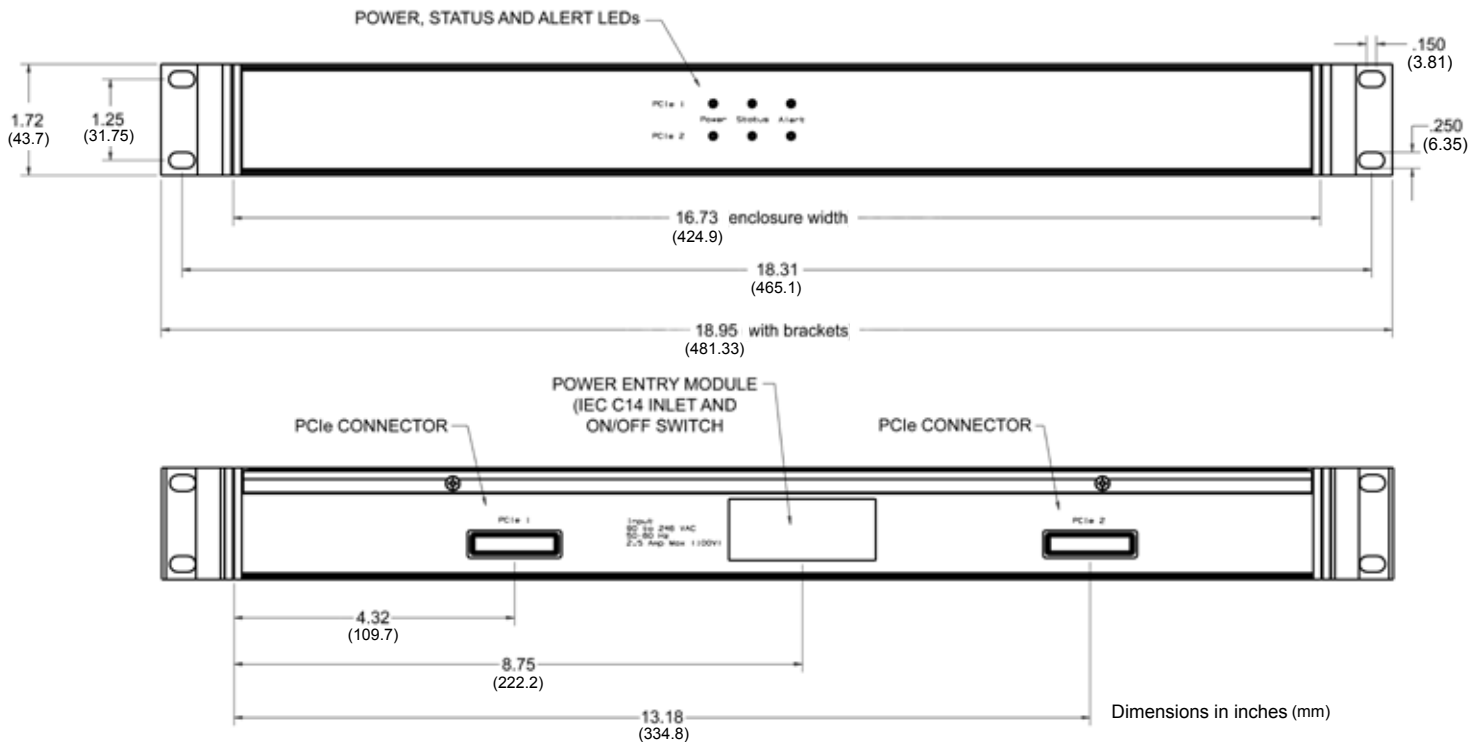
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Specifications	
Array Sizes Available (Raw Storage)	500 GB, 1 TB, 2 TB
Sustained Write Speed	> 36 Gb/s
Sustained Read Speed	> 10 Gb/s (interface dependent)
Protocols Supported	PCI-E Gen 2 (x 8)
Interface	RAW, XFS, compression available via API
Power Consumption	Idle: < 20 watts nominal
	Write: < 120 watts
	Read: < 35 watts nominal
Memory Type	SLC flash memory
Error Correction	Proprietary stripe and error detect / correct encoding
Architecture	Proprietary DIMMs array
Expected Life	Approximately 10 years (depending on write duty cycle)
Operational Temperature	0°C to +60°C
Storage Temperature	-50°C to +80°C
Size	Width: 16.73 inches (424.9 mm)*
	Depth: 15.97 inches (405.6 mm)*
	Height (1 U): 1.72 inches (43.7 mm)

\* Not including mounting bracket

## Velocity® High Bandwidth Storage Array Dimensions



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 Velocity® (Patent Pending)  
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