

# L-3 Targa Systems CPCI 325 USB Mass Storage

## OVERVIEW

Targa's cPCI Form factor USB Bulk Storage module has been specifically designed to replace hard disk drives in rugged and environmentally demanding applications. Based on Targa's 2.5" ATA FLASH disk the single slot, 3U cPCI cards are available in both convection cooled and conduction cooled form factors.

- USB 1.1 & USB 2.0 Mass Storage Device / Bulk Transport
- Ruggedized, high reliability, solid state design, no moving parts
- USB interconnect via backplane J2
- Single slot up to 64GB
- Low power consumption
- Write protect switch selectable
- Noiseless operation

## PRODUCT MODEL NUMBERS

Targa's cPCI USB Mass Storage modules are available in a broad range of memory capacities and environmental classifications. The product model designations are:

### CPCI 325 USB / An - cc - ee

<b>An</b>	<b>ATA Disk Type</b>	<b>cc</b>	<b>capacity = GB</b>
	A14 14MB/sec sustained	1	1GB
		8	8GB
		64	64GB
<b>ee</b>	<b>environmental class</b>		
	00 Basic		
	10 Enhanced		
	20 Extended		
	50 Conduction Cooled		



Conduction Cooled Unit



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Targa's Solid State Storage Solutions are available in a wide range of form factors and interfaces.

- VME SCSI  
6U single slot
- cPCI SCSI  
3U & 6U single slot
- PC Card DTU's  
Serial; SCSI; 1553
- SCSI Flash Disks  
3.5" and 2.5"
- IDE Flash Disks  
3.5" and 2.5"
- Removable Disk Systems  
3.5" and 2.5"

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# CPCI 325 USB SPECIFICATIONS

<b>Form Factor</b>	cPCI 3U (100mm x 160mm)	
<b>Capacity</b>	<b>ATA Drives</b>	1
	<b>Max Capacity</b>	64GB
<b>Power</b>	<b>Voltage</b>	4.85 - 5.25 Vdc
	<b>Current</b>	1 amp (max)
<b>Weight</b>	<b>nominal</b>	300 grams (configuration dependant)

### Read & Write Data Transfer Rates

	<b>USB/A14</b>
<b>USB 2.0</b>	11 MB/sec
<b>USB 1.1</b>	1 MB/sec

Measured with HD Tach disk performance utility, 1 GHz Pentium processor

### Reliability

<b>Data Reliability</b>	Built-in EDC / interleaved Reed Soloman ECC
<b>Endurance</b>	1,000,000 cycles per FLASH manufacturer's specification
<b>Undeleted Data Error</b>	<10 <sup>-30</sup>

**BIT Features** Yes, Power-up Self Test

**Data Integrity** 10 Years

**Front Panel Indicators:** Power (green) Busy (green) Write Protected (yellow)

**Configuration Switches:** Write Protect Enable

Environmental	Basic (-00)	Enhanced (-10)	Extended (-20)	Conduction Cooled (-50)
Operating Temperature	0°C to +60°C	-20°C to +75°C	-40°C to +85°C	-40°C to +71°C
Storage Temperature	-55°C to +95°C	-55°C to +95°C	-55°C to +95°C	-55°C to +95°C
Altitude	50,000 ft	50,000 ft	50,000 ft	50,000 ft
Ascent, Descent	10 m/s, 13 m/s	10 m/s, 13 m/s	10 m/s, 13 m/s	10 m/s, 13 m/s
Humidity	10 - 85%	----- 10 - 100% with condensation -----		
Shock	n/a	----- 8g, 11ms, 1/2 sine -----		20g, 11ms, 1/2 sine
Vibration	n/a	----- 0.04 g <sup>2</sup> /Hz, 5 to 2000 Hz -----		
Stiffening Ribs	No	Yes	Yes	Yes
Conformal Coat	No	Yes	Yes	Yes

Specifications are subject to change without notice.

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