



# Cyberchron Rugged Systems

A Division of C-Systems Corporation

# CRS-5000

## Rugged Portable Server

The CRS-5000 series *ruggedized* Transportable Servers are designed for deployment in the harshest military and industrial environments while supporting the latest advances in data storage technology. They are ideally suited for configuration within a high speed Ethernet network as High Performance Workstations or server subsystems. Features include: dual XEON Multi-Core processors to 3+GHz; memory to 64GB; ultra-high performance SAS/SATA RAID subsystem via dedicated high speed processors and data caching; easily expandable to suit changing needs for up to four (1.0") removable data storage devices with hot-swap/hot-spare capability. Multiple backplane options include: industry standard single/dual processor motherboards or multi- slot passive backplanes in single or multi-segment configurations. Remote diagnostic and full RAID management capability via the desktop or Ethernet, as well as transparent support for all Operating Systems including Windows7, Vista, XP and Linux; dual Gigabit Ethernet (10/100/1000 autosensing) and both copper and fiber support are available. And of course, the CRS-5000 series supports all disk drives, CD/DVD devices and tape drives, as well as solid-state Flashdisk devices.



FIELD RUGGED - MISSION READY

### CHASSIS

- > Seam Welded Monocoque Aluminum Design
- > Forced air cooled, high flow
- > 19" Rack-mount or Pedestal mount
- > Easy Removable Top Access Cover and front drive/media access door
- > Fully EMI shielded with flexible I/O

### UPGRADEABILITY

- > Up to 4 drives for over 8TB of rugged RAID data storage
- > Hot swap drive bays
- > Industry standard motherboard or passive backplane configuration
- > Mix & Match all types of disk drives or solid-state Flashdisks

### POWER SUPPLY

- > Ruggedized Power Supply
- > Auto-range AC & DC options
- > Wide Voltage & Frequency Compliance
- > Power Cord with secure Twist-&-Lock connector
- > UPS backup option

### DISPLAY

- > Dual 20.1" 1600 x1200 pixel displays standard
- > External Video input supports Picture-In-Picture capability
- > Standard Video and PS/2 keyboard/mouse connections
- > Can support up to 4 displays

### INTERFACING

- > Drives: SAS/SATA, ATA, EIDE
- > Serial RS-232
- > Flexible I/O options
- > Dual Gigabit Ethernet (10/100/1000 autosensing)
- > Windows7, Vista, XP, Linux
- > PCI; PCI-x; PCI-e, AGP, others

### PERIPHERALS

- > Low profile (1") disk drive form factors
- > Full support for all hard drives and solid-state Flashdisks
- > Support for Optical drives
- > Mix & Match all drives, media and capacities



ALTITUDE



TEMPERATURE



SOLAR RADIATION



RAIN



HUMIDITY



FUNGUS



SALT FOG



SAND/DUST



VIBRATION



SHOCK



EMI/EMC

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## UNIT SPECIFICATIONS

Item	CRS-5000/DX	CRS-5000/CI	CRS-5000/P11
<b>Dimension</b>	20" x 16" x 10"	Same	Same
<b>Hard Drive capacity</b>	4 x low profile (1")	4 x low profile (1")	4 x low profile (1")
<b>Backplane</b>	Motherboard	Motherboard	11 slot passive
<b>Processor</b>	Dual XEON Multi-Core	i-Series & Core 2 Duo	All Core2 Duo, i-Series & XEON
<b>Disk interface</b>	SATA, SAS, EIDE	SATA, SAS, EIDE	SATA, SAS, EIDE
<b>Ethernet interface</b>	2 x Gigabit Ethernet (10/100/1000)	2 x Gigabit Ethernet (10/100/1000)	2 x Gigabit Ethernet (10/100/1000)
<b>Processor &amp; Cores</b>	2 x Multi- Core	i-Series or Core 2 Duo	4 x Multi- Core
<b>Memory Capacity</b>	64GB	64GB	Processor dependent

## ENVIRONMENTAL

<b>Temperature</b>	operating non-operating	0°C to +50°C -40°C to +85°C
<b>Altitude</b>	operating non-operating	-1,000 to 15,000' to 60,000' (Method 500.3)
<b>Fungus</b>		Will not support growth per Method 508.4
<b>Humidity</b>		5 - 95% Non-Condensing
<b>Rain</b>		Operating, per Method 506.3 Procedure I
<b>Salt Fog</b>		MIL-STD-810E Method 509.3 Procedure I, exterior
<b>Sand &amp; Dust</b>		Operating per Method 510.3 Procedure I
<b>Solar Radiation</b>		Operation in direct sunlight, minimum 30 minutes
<b>Shock, operating</b>		20g @ 11mS half sine, per Method 516.4 Procedure I
<b>Shock, non-operating</b>		75g @ 11mS half sine, per Method 516.4 Procedure V; 4' drop (in transit case)
<b>Vibration</b>		Per shipboard, common carrier, ground mobile, aircraft, tactical wheeled vehicle (Method 514.4); MIL-STD-167/1 type 1
<b>MTBF</b>		>30,000 hrs ground benign @ 25°C, typical, configuration dependent
<b>MTTR</b>		<30 minutes
<b>EMI/EMC</b>	Standard Optional	Designed for FCC Class A/B MIL-STD-461C/D/E A1,A3,A4,A5



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*Note: Extended Environmental Characteristics Are Available.*

\* Peripheral dependent, based on MIL-STD-810E where noted; preliminary data subject to final test confirmation. Extended environmental performance optional.

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