

## ZX3 STATION

### ULTRA RUGGED RACK MOUNTED 3U WORKSTATIONS + SERVERS

The ZX3 Station is a high performance, rack mountable, computing and graphics processing powerhouse. At only 5.25" (3U) high by 20 inches deep, this compact, rugged workstation utilizes minimal rack space and delivers an extremely flexible computing and high-capacity storage solution that is unbeatable in mission-ready applications.

The ZX3 Station integrates the latest computing technology with a system architecture supporting any Extended ATX form-factor motherboards with support for up to twelve rugged hot-pluggable TP2 removable drives, a slimline DVD-RW, and an environmental control board to support proper thermal regulation. User-friendly features include a front accessible power switch, two front accessible USB ports for rapid connectivity, and a quick release top access cover for ease of service and hardware installation.

### HIGHLIGHTS

- Supports latest Intel Quad Core Xeon & AMD Quad Core Opteron processors
- 650W dual redundant power supply
- 19" rack mountable
- Only 20 inches deep
- 3U (5.25") height
- 6 PCI expansion slots
- Ultra-secure PCI card brackets
- Durable Aluminum packaging
- Up to 12 rugged removable SATA or SAS TranzPak2 HDDs
- Slim DVD-RW and front accessible USB slots
- Environmental control board with status display

Optimized for rugged conditions, the ZX3 Station hosts innovative PCI card hold-down brackets that secure cards in all three axis (X/Y/Z). In addition, the front panel provides a filtered dust door with a systems status display to quickly monitor the status of the rugged server. Dual redundant 650W power supplies insure support for the latest multi-core processors and high-end PCI Express graphics cards.

Z Microsystems' engineers are experts in the design of systems that reduce the risk, cost and failure caused by harsh environmental conditions. Designed to exceed MIL-STD 167 for vibration and MIL-STD 461 for EMI, ZX3 Stations are a robust solution for hostile, field-ready applications. Enhanced military options such as EMI filtered power supplies with Mil-Circular connectors and locking security panel are available.

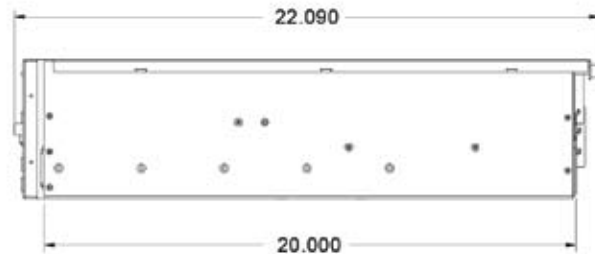
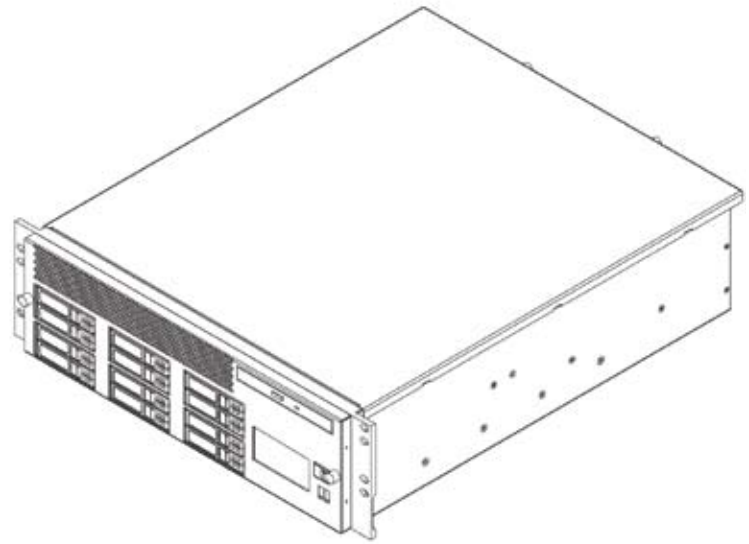
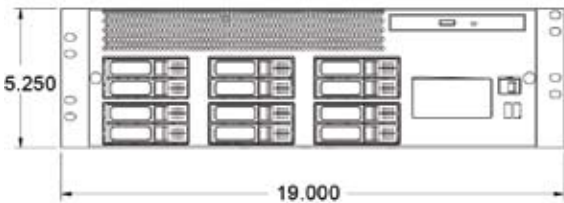
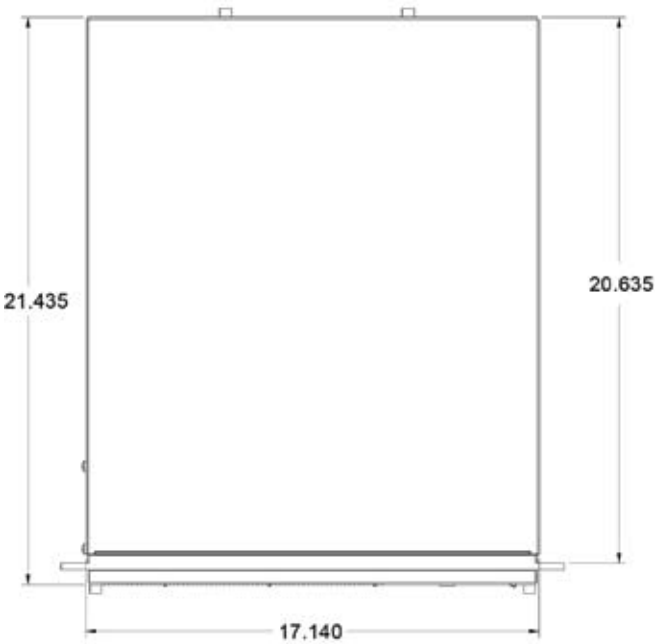


PRELIMINARY SPECIFICATIONS - ZX3 STATION RELEASE DATE Q4 2009

ZX3 Station

<b>Physical</b>	
Dimensions	5.25"H x 17.14"W x 20.00"D (inside rack)
Weight	Approximately 35 lbs. <i>NOTE: Weight dependant on number of hard-drives. Each additional drive adds approx. 0.75 lbs</i>
Storage Options	SATA or SAS
<b>Power Supply: Zippy Dual Redundant</b>	
Total Output Power	650 W
AC Input Range	90-132/180-264 VAC
Input Frequency	47-63Hz
<b>Environments*</b>	
Operating Temp	0° to + 50° Celsius. Extended operating temperatures achievable with Solid State Drive.
Non-op Temp	-40° to + 70°C
Operating Humidity	Up to 95% Non-condensing, 30° to 60°C 48 hours <i>*Optional conformal coating to meet full MIL-STD-810F compliance to Method 507.5, 10 days</i>
Non-op Altitude	Up to 40,000 ft.
Operating Altitude	Up to 10,000 ft.
Vibration	MIL-STD-167. Up to 25 Hz. Extended vibration environments are achievable with Solid State Drives. Above 25 Hz throughput will degrade with spinning HDDs.

Shock	30g's, Saw-tooth, 11ms
Fungus	Non Nutrients/contaminants
<b>Reliability</b>	
Operating Life	10 years
Maintainability	<20minutes @ Line-Replaceable Unit (LRU) Level
<b>Regulatory</b>	
Safety	UL 60950 (used as a guideline)
EMI	Options may require Mil-Spec Power Supplies RE101, RE102 (shipboard levels), RS101, RS103 (up to 20 v/m) CE102, CS101, CS114, CS115, CS116 <i>NOTE: EMI results based on the use of properly shielded and grounded cables connected to the unit.</i>
<b>Quality/Workmanship</b>	
	IPC / ISO 9001:2000 and applicable section of MIL-HDBK-454
<b>MIL-SPEC</b>	
	Additional extended range environmental military specifications can be met with optional enhancements. See your Z Micro representative for details.
<i>*Units are designed and built to meet the following specifications. *Design Verification Test Reports available Q4 2009.</i>	



Z7-0060DS ZX3 Datasheet