

ZX1C 20

LIGHTWEIGHT SERVER

20" Depth, Rugged 1U Server
with Carbon Fiber Elements



zmicro.com/ZX1C-20

High-Performance 1U Server Designed for ISR Applications

ZMicro introduces the latest improvement to its rack-mount server line with a new lightweight option for its ZX1 Server. The new ZX1C 20 provides all the processing and storage capability of a high-end server in a lightweight package. The packaging leverages both aluminum and carbon fiber materials in its construction to provide a practical balance of rugged design and optimal weight. The ZX1C 20 is designed both as a fully capable, single or dual socketed, high-end processing server and as a system tailored for weight sensitive applications. The ZX1C 20 will meet your intensive processing requirements while still saving you valuable weight for ISR applications.

Advanced Processing

The ZX1C 20 offers the latest computing technologies in a robust, 1U rack-mount form-factor. The system is designed around a 750W DC power supply in order to support high-end CPUs, GPUs and massive amounts of memory. The system supports a single or dual-socketed motherboard capable of hosting up to 28 cores, a high-end PCI-Express Graphics Card and up to 4 removable SATA III hard-drives.

Lightweight, Rugged Design

The design of the ZX1C 20 required a balance of lightweight materials and proven rugged design features to guarantee operational performance in the most stringent of military applications. Over 30 years of hardware design expertise was leveraged to ensure full MIL-SPEC compliance for shock, vibration, temperature, EMI/EMC, and altitude specifications. The final result is a proven rugged server in a lightweight package.



All ZX Servers are equipped with the TP2 rugged storage module which is an ultra-compact and lightweight data solution for military and industrial applications.

HIGHLIGHTS

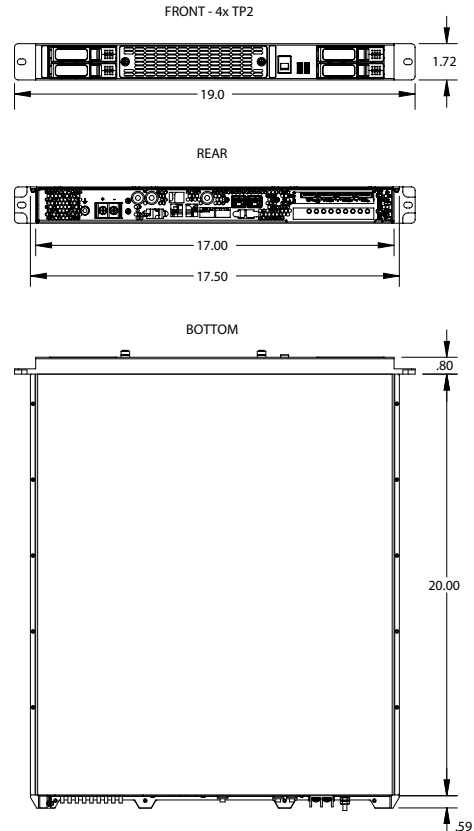
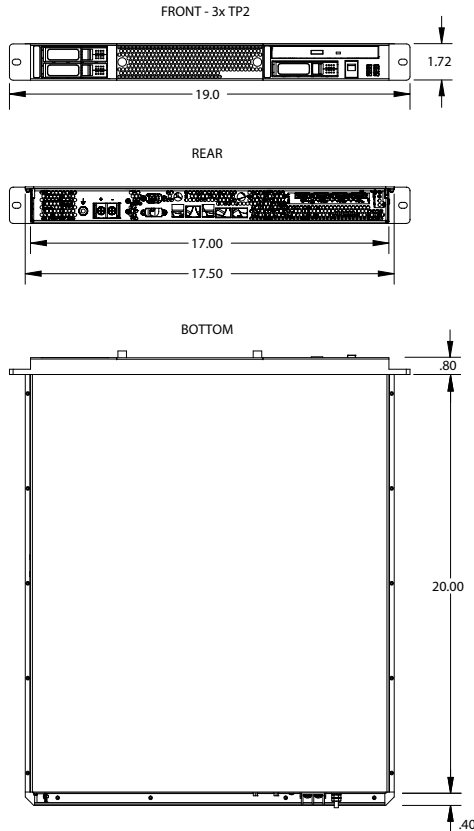
- 1U rugged rackmount server, 20" depth
- Single or Dual Socket Motherboard options (Intel® Server Board S2600STB or Supermicro® X11SPW-TF)
- Up to two Intel® Xeon® Scalable Processors
- Up to 2TB RAM
- Latest NVIDIA® & ATI™ graphics video cards
- Supports up to 4 removable TP2 storage modules
- 750W DC power supply
- Configurations starting near 13 lbs.
- EMI: CE102, RE102, RS101, CS101
- Functional Shock: MIL-STD-810G
- Vibration: DO-160E
- Operating Altitude: 20,000 ft.

FOR MORE INFO

Contact us at sales@zmicro.com
or call 858.831.7000.



MECHANICAL OUTLINE



TECHNICAL SPECIFICATIONS

SIZE & WEIGHT	Dimensions	1.7" H x 17.0" W x 20.0" D
	Weight	13 - 15 lbs. (Depending on configuration)
POWER	TP2 Weight	7 - 10 oz.
	Power Supply	750W Max Supply
OPTIONS	Input Range	18-36 VDC @ 46 to 26A (Inrush current 100 Amps @ 24VDC @ 25°C)
	Motherboard	Latest Intel® and Supermicro® motherboards
	Processor	Latest Intel® Xeon® scalable processors
	Memory	Up to 2TB DDR4 2666MHz Registered ECC Memory - 2TB for Intel S2600STB and 1.5TB for Super Micro X11SPW-TF
ENVIRONMENTAL	Storage	Up to 4 TP2 rugged storage modules (Standard 2.5" drives - up to 8TB each SSD/HDD)
	Graphics	Latest NVIDIA® & ATI™ graphics video cards
	PCI Add-On Slots	1 PCIe slot for Intel® motherboard, 3 PCIe slots for Supermicro® motherboard
	Operating Temp High	50°C, MIL-STD-810G, Method 501.5, Procedure I
	Operating Temp Low	0°C, MIL-STD-810G, Method 502.5, Procedure I
	Non-Operating Temp High	70°C, MIL-STD-810G, Method 501.5, Procedure II
	Non-Operating Temp Low	-40°C, MIL-STD-810G, Method 502.5, Procedure II
	Operating Altitude	Up to 20,000 ft., MIL-STD-810G, Method 500.5
	Non-Operating Altitude	Up to 40,000 ft., MIL-STD-810G, Method 500.5
	Humidity	DO-160F, Section 4, Category A, 50°C and 95% RH
OTHER	Shock	MIL-STD-810G, Method 516.6, 30 g's, Saw-tooth, 11ms
	Vibration	DO-160E, Section 8, Curve B (Aircraft Type 2)
	EMI/EMC	MIL-STD-461F, RE102 (Shipboard Level 1), RS101 (Army Limits), CE102, CS101
	Quality	AS9100:2016 and ISO 9001:2015 certified

ZMicro, Inc. is an AS9100:2016 & ISO 9001:2015 certified company. Product information and technical data provided are typical of standard configurations of the described products. Measured results may vary slightly between units. This information is subject to change without notice. For more information, or the latest version of this product sheet, please visit our website @ www.zmicro.com.