ZX1C 20
LIGHTWEIGHT SERVER

Lightweight, Rugged 1U Server
with Carbon Fiber Elements

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 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 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 will meet your intensive processing requirements while still saving you valuable weight for ISR applications.

Advanced Processing

The ZX1C 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 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.

Demanding Environments Demand Rugged Storage

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.
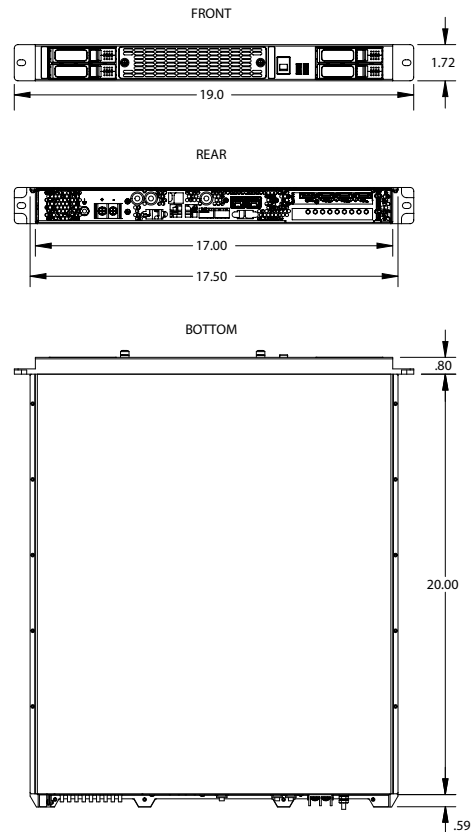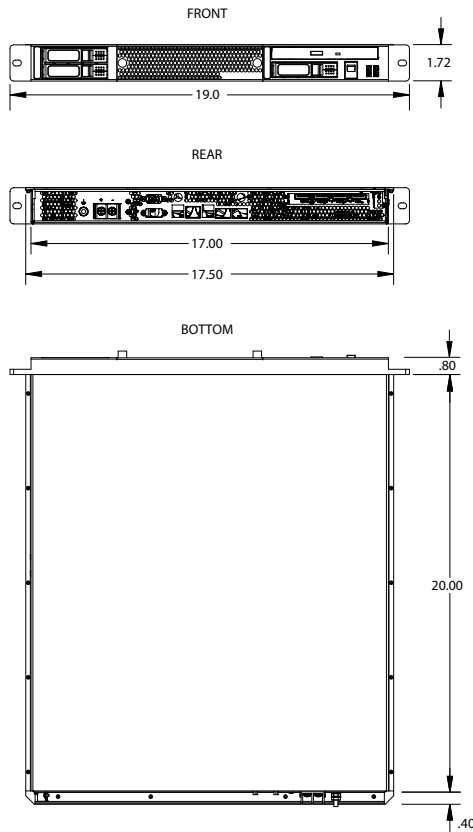
HIGHLIGHTS

- 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

FRONT
19.0
1.72

REAR
17.00
17.50

BOTTOM
.80
20.00
.40

FRONT
19.0
1.72

REAR
17.00
17.50

BOTTOM
.80
20.00
.59

TECHNICAL SPECIFICATIONS

SIZE & WEIGHT	Dimensions	1.7" H x 17.0" W x 20.0" D
	Weight	13 - 15 lbs. (Depending on configuration)
	TP2 Weight	7 - 10 oz.
POWER	DC Power Supply	750W Max Supply
	DC Input Range	18-36 VDC @ 46 to 26A (Inrush current 100 Amps @ 24VDC @ 25°C)
OPTIONS	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
	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
ENVIRONMENTAL	Operating Temperature	MIL-STD-810G, Method 501.5: 0° to 50°C
	Non-Operating Temperature	MIL-STD-810G, Method 501.5: -40° to 70°C
	Operating Altitude	MIL-STD-810G, Method 500.5: Up to 20,000 ft.
	Storage Altitude	MIL-STD-810G, Method 500.5: Up to 40,000 ft.
	Humidity	DO-160F, Section 4, Category A, 50°C and 95% RH
	Shock	MIL-STD-810G, Method 516.6, 30gs, 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
OTHER	Quality	IPC/ISO 9001:2015 and applicable sections of the MIL-HDBK-454