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, 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. Systems can support up to 64 cores per socket, a high-end PCI-Express Graphics Card and up to 4 removable Tranzpak 1 NVMe storage modules.

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 TP1 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 Socket Supermicro® X13SEW-TF or Dual Socket X13DEI-T Motherboard
- Intel® 5th/4th Gen Xeon® Scalable Processors
- X13SEW-TF supports 2TB RAM, X13DEI-T 4TB RAM
- Latest NVIDIA® & AMD™ graphics video cards
- Supports up to 4 removable TP1 storage modules
- 700W Fixed AC or 750W DC power supply
- Input Range for AC: 90-264 VAC, 10 to 5A, 47-63 HZ
- Input Range for DC: 18-36 VDC @ 46 to 26A
- Configurations starting near 13 lbs.
- MIL-STD-461 EMI: CE102, RE102, RS101, CS101
- Functional Shock: MIL-STD-810G
- Vibration: DO-160G
- Operating Altitude: 20,000 ft.

FOR MORE INFO

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

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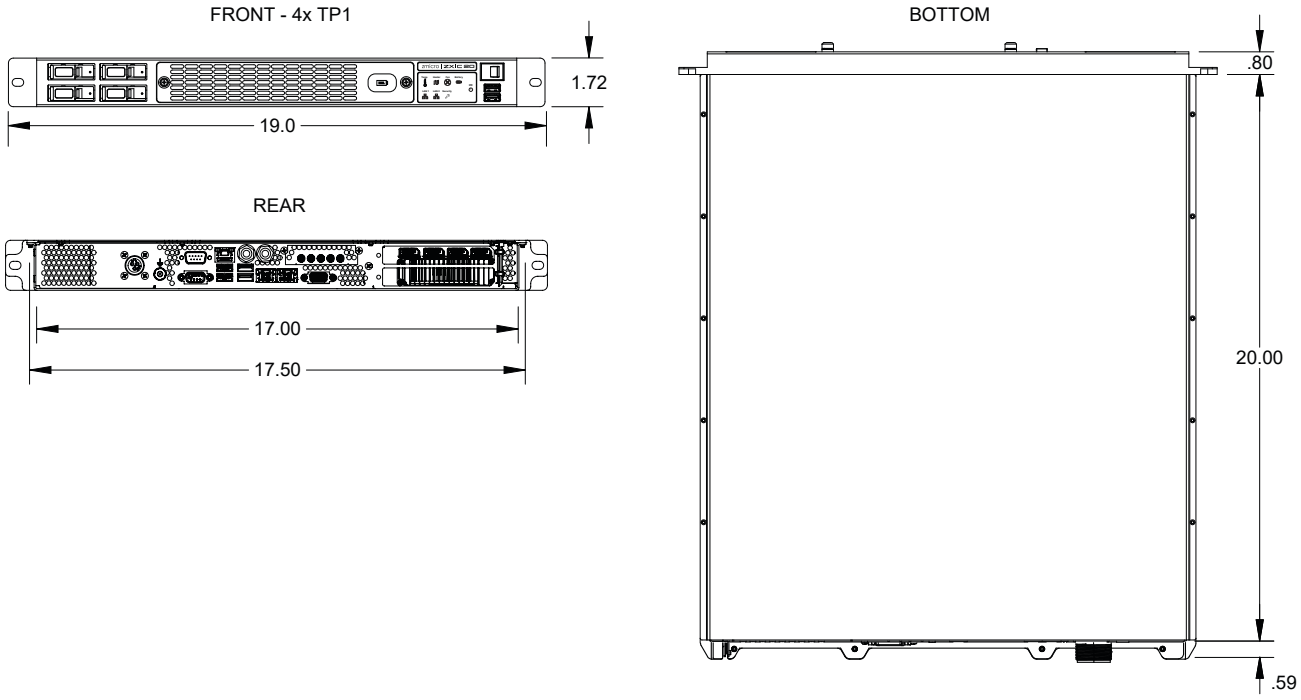
To see all of our server options, visit zmicro.com/servers

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)
	TP1 Weight	3.2 oz.
POWER	Power Supply	700W Fixed AC or 750W DC Power Supply
	Input Range	AC: 90-264 VAC, 10 to 5A, 47-63 HZ
		DC: 18-36 VDC @ 46 to 26A (Inrush current 100 Amps @ 24VDC @ 25°C)
OPTIONS	Motherboard	Latest Supermicro® motherboards
	Processor	Latest Intel® 5th/4th Gen Xeon® scalable processors
	Memory	2TB for X13SEW-TF motherboard, 4TB for X13DEi-T motherboard
	Storage	Up to 4 TP1 rugged storage modules (Standard M.2 NVMe drives - up to 8TB)
	Graphics	Latest NVIDIA® or AMD® graphics video cards
	PCI Add-On Slots	3x PCIe slots for X13SEW-TF, 1x PCIe slot for X13DEI-T
ENVIRONMENTAL	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-160G, Sec 6.3.2, Cat B 10 day severe humidity*
	Shock	MIL-STD-810G, Method 516.6, 30 g's, Saw-tooth, 11ms*
	Vibration	DO-160G, Cat S, Curve L*
	EMI/EMC	DO-160G, RE102 (Shipboard Level 1), RS101 (Army Limits), CE102, CS101*
OTHER	Quality	AS9100:2016 and ISO 9001:2015 certified

*Designed to meet