

# ZM3

## AIRBORNE COMPUTER

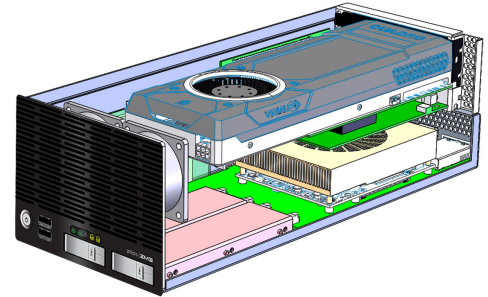
Small Lightweight Computer for  
Airborne ISR Applications



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### Focus on SWaP

The ZM3 airborne computer is designed specifically to minimize size, weight and power for airborne ISR applications. Built to provide advanced compute processing in the smallest form-factor possible, the ZM3 offers full server capability in a small, rugged packaging. The system supports double-wide COTS high-end graphics cards and an additional PCI Express card for custom user expansion. Utilizing an advanced Type 7 COM Express module, the ZM3 utilizes a 16 Core Intel® Xeon® Processor with up to 48G RAM.



### Designed to Survive Airborne Environments

The ZM3 is carefully engineered to handle the extreme conditions of airborne environments. Designed and tested to DO-160D requirements for vibration, shock, temperature, humidity, dust and EMI/EMC, the ZM3 provides powerful compute capabilities with robust environmental design to ensure your missions will be a success.

### NVMe Based Removable Storage Drives

Further reducing weight, the ZM3 can house up to two TranzPak 1 rugged storage drives (up to 4TB), which utilize the latest NVMe technology to provide storage read/write speeds up to 3x faster than SATA and only weigh 3 oz. each.



*TranzPak 1 Storage Module*

## HIGHLIGHTS

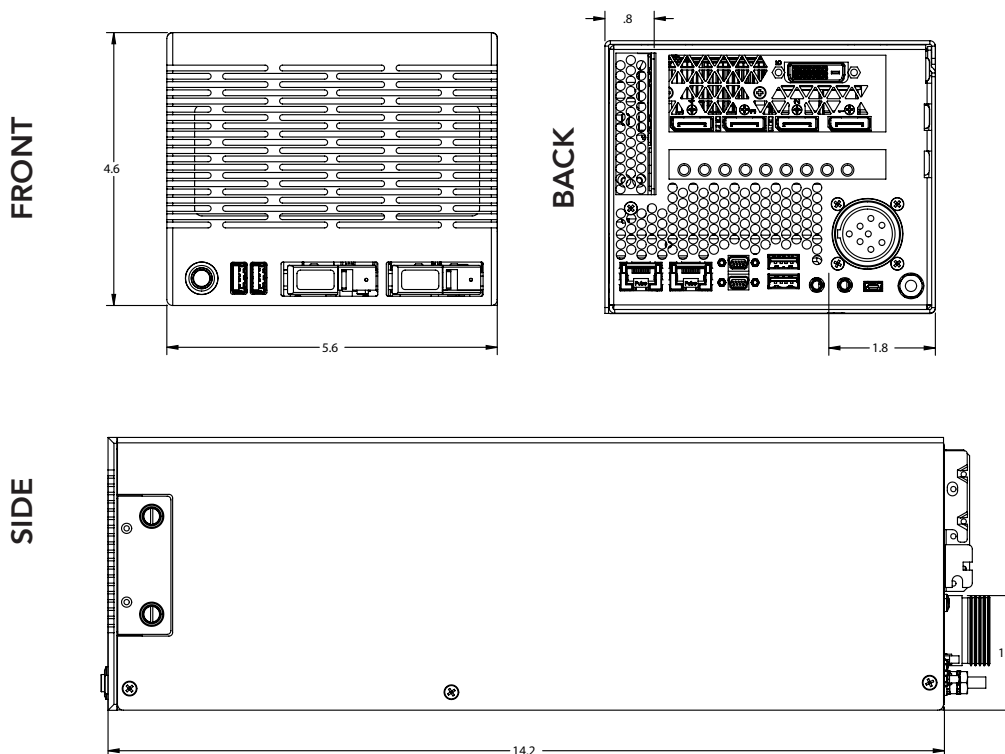
- Lightweight aluminum construction, weighing less than 10 lbs
- Compact size: 4.6" w x 5.6" h x 14" d
- Illuminated power button for system status
- Field-replaceable dust filter
- High performance NVMe based storage
- 2 x front access USB 3.0 Ports
- MIL-DTL-38999 Locking Power Connector
- Up to 16 CORE, 1.3GHZ+ INTEL® XEON® processor
- DDR4 RAM, up to 48GB
- Flexible PCI expansion options: Up to 3 PCIe cards
- Up to 4TB of removable TRANZPAK 1 based storage
- Onboard dual 10GigE and Audio
- Configurable Dual Serial Ports supporting RS422 or RS232
- 450W, 18-36V DC power input with EMI filter

## FOR MORE INFO

Contact us at [sales@zmicro.com](mailto:sales@zmicro.com)  
or call 858.831.7000.



## MECHANICAL OUTLINE



## PRELIMINARY TECHNICAL SPECIFICATIONS

<b>SIZE &amp; WEIGHT</b>	Dimensions	4.6"H x 5.6"W x 14.2"D
	Weight	Under 10 lbs
<b>HARD DRIVE OPTIONS</b>	Hard Drive Options	Up to 2 removable TranzPak 1 (TP1) modules
	Storage Capacity	Up to 4TB NVMe SSD (2TB per TP1)
<b>ENVIRONMENTAL</b>	Operating Temp.	-15° to +55°C
	Non-Operating Temp.	-55° to +85°C
	Humidity	DO-160G, Section 6, Category A
	Operating Altitude	Up to 15,000
	Non-Operating Altitude	Up to 40,000
	Vibration	DO-160G, Section 8, Category S, Curve M
	MTTR	< 30 mins.
	ESD	DO-160, Section 25, Category A
<b>OTHER</b>	Quality	IPC/ISO 9001:2015 and applicable sections of the MIL-HDBK-454

ZMicro, Inc. is an ISO 9001:2008 certified company and compliant with AS 9100 requirements. 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](http://www.zmicro.com)