

**CRYSTAL™****FORCE™**

# Crystal Group FORCE™ Module Options

## Modules provide easy customization and decreased footprint

Crystal Group FORCE™ rugged servers deliver high performance computing with flexible options that converge storage, networking, cybersecurity and audio; eliminating separate systems and reducing power, space and cooling. Crystal Group FORCE servers can be tailored to meet unique application needs of today and easily reconfigured for tomorrow.



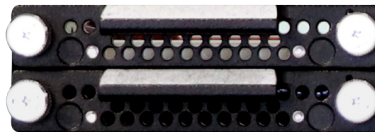
Circuit breaker



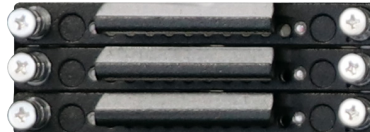
Serial port



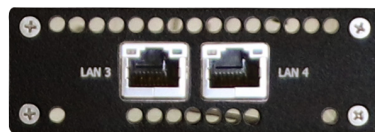
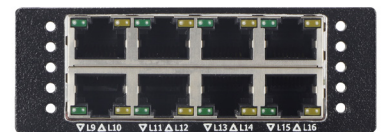
CMOS battery tray



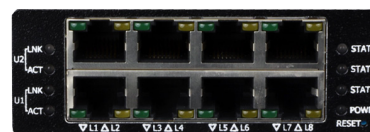
Dual drive



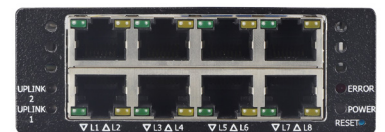
Triple drive



2-port GbE LAN



8-port GbE switch



16-port GbE switch



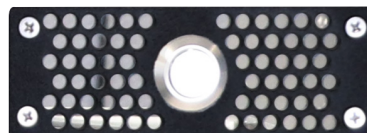
USB sound card



USB audio device with speakers



2x USB 3.0



Data sanitize



Card reader

*A clear advantage.*

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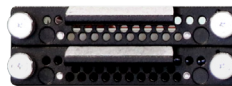
## DRIVE CARRIERS

**Circuit breaker**

- Front-mounted circuit breaker
- One removable 2.5" HDD/SSD

**Serial port**

- Front-mounted serial port
- One removable 2.5" HDD/SSD

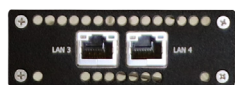
**Dual drive**

- 2x removable 2.5" HDD/SSD
- Large thumbscrews for easier access

**CMOS battery tray**

- Field-replaceable, front-mounted CMOS battery
- One removable 2.5" HDD/SSD

## NETWORKING

**2-port GbE LAN**

- 2x 1GbE network connections; requires available m.2 slot

**8-port GbE switch\***

- Up to 16 total 1G ports
- 8 or 16 1GbE ports
- -40C to +60C operational temperature
- No external wiring required

**16-port GbE switch\***

- Up to 16 total 1G ports
- 8 or 16 1GbE ports
- -40C to +60C operational temperature
- No external wiring required



## AUDIO

**USB sound card**

- Easy access to audio out/mic in capabilities on front of server

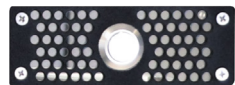
**USB audio device with speakers**

- Easy access to audio out/mic in capabilities on front of server
- Includes volume control

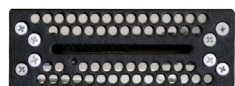
## VARIABLE SOLUTIONS

**2x USB 3.0**

- Dual front-mounted USB ports
- 10x faster transfer speed than USB 2.0

**Data sanitize**

- Instant data sanitization
- Requires SSD support

**Card reader**

- CAC/smart card reader
- Mounted inside server chassis

**Fluid pump and reservoir**

- State-of-the art liquid cooling option
- Consumes two drive bays

**Blank adapters**

- Enables future expansion with additional modules as needed

\* Visit [crystalrugged.com](http://crystalrugged.com) for detailed specifications.

Certification reports for select products are available on [Crystalrugged.com](http://Crystalrugged.com). Crystal Group designs all products to meet or exceed the specifications listed herein. Due to the numerous models and component combinations, some configurations are still being tested. Please contact your Crystal Group program manager for test data on desired requirements.



Technology  
Provider  
Platinum 2020

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DOC-00749 Rev B 1/22

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