

# ECHELON 4U

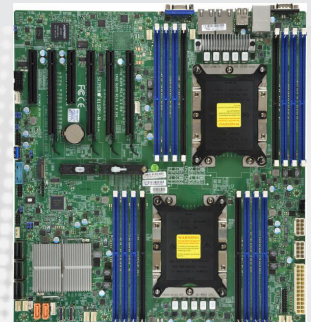
## EXCLUSIVE RAPID SWAP

2 stacked 16 slot removable drive carriers



## PRODUCT HIGHLIGHTS

- ⓘ Up to 32 drives in two fully removable ruggedized carriers
- ⓘ All drives are individually hot-swappable
- ⓘ Maximum performance 12 Gb/s SAS-3 drive and 6GB/s SATA backplane interfaces
- ⓘ Mixed SAS/SATA drive capability
- ⓘ MegaRAID® controller with CacheVault®
- ⓘ Dual Xeon® Gold scalable CPUs, up to 44 cores
- ⓘ Dual onboard 10Gb LAN
- ⓘ Hot-swap, dual-redundant 1200W wide-range AC input power supplies
- ⓘ Independently removable high-reliability, high velocity fans
- ⓘ Short depth (22-inch), 19" rackmount with rugged sliders
- ⓘ Low-smoke, zero-halogen internal cabling
- ⓘ MIL-STD-810G, MIL-STD-167, MIL-STD-461G qualifications
- ⓘ Made in Canada & USA



## FEATURES

|                                         |                                                                                                                                                                                                                                                    |                                      |                                                                                                                                                                                                |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OPERATING SYSTEM</b>                 | Windows 10 Pro, Windows 10 Enterprise LTSB, Windows Server 2016 or Linux                                                                                                                                                                           | <b>EXPANSION SLOTS</b>               | Four (4) PCI-Express 3.0 x16 slots supported by CPU1 and CPU2<br>Two (2) PCI-Express 3.0 x8 slots supported by CPU1<br>M.2 Interface: PCI-E 3.0 x4<br>M.2 Form Factor: 2260, 2280, 22110 M-Key |
| <b>PROCESSOR</b>                        | 2nd Generation Intel® Xeon® Scalable Processors Socket LGA-3647<br>TDP support up to 125W/CPU                                                                                                                                                      | <b>BIOS AND SOFTWARE</b>             | AMI UEFI, IPMI2.0                                                                                                                                                                              |
| <b>CHIPSET</b>                          | Intel® C622 Chipset                                                                                                                                                                                                                                | <b>PERIPHERAL DEVICES</b>            | Two (2) USB 2.0 ports on the rear I/O panel<br>Two (2) USB 3.0 ports on the rear I/O panel                                                                                                     |
| <b>MEMORY</b>                           | Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz, in 12 DIMM slots                                                                                                                                                    | <b>TRUSTED PLATFORM MODULE</b>       | TPM 2.0, 1.2 supported                                                                                                                                                                         |
| <b>STORAGE</b>                          | Broadcom MegaRAID® controller with CacheVault® technology<br>RAID levels 0,1,5,6,10,50 and 60                                                                                                                                                      | <b>POWER</b>                         | 90-264VAC 1200W Dual Redundant Hot-Swappable, US Standard EIA Plug                                                                                                                             |
| <b>BASE BOARD MANAGEMENT CONTROLLER</b> | ASPEED AST2500 BMC supports IPMI 2.0<br>One (1) dedicated IPMI LAN<br>VGA Graphics controller via AST2500 BMC                                                                                                                                      | <b>MECHANICAL</b>                    | Material: Machined aluminum 6061-T6 and Sheet aluminum 5052-H32<br>Dimensions: 4U x 19" W x 22" D<br>Weight: Payload dependent                                                                 |
| <b>ETHERNET LAN</b>                     | Dual onboard 10 Gbase-T LAN                                                                                                                                                                                                                        | <b>ENVIRONMENTAL</b>                 | Operating Temp: 0-50°C, Storage Temp: -40-70°C<br>Humidity: Up to 95% Non-Condensing<br>Vibration: MIL-STD-167-1A & MIL-STD-810G<br>Shock: MIL-STD-810G<br>EMI/EMC: Tested per MIL-STD-461G    |
| <b>SSD DEVICES</b>                      | Up to 32 drives in 8 groups of 4 each. Flexibility to connect any group to SAS: 12Gb/s or SATA: 6Gb/s interfaces<br>Supports FIPS 140-2 Cryptographic SSD's for maximum security capability.<br>Standard non-encrypted SSD's also fully supported. | <b>OPTIONAL 3RD PARTY PCIE CARDS</b> | Reflective Memory<br>Fiber MEDIA 25 Gb/s                                                                                                                                                       |

## ORDERING INFORMATION

Contact us at **855.365.2188** or visit [jsquared.com/general-inquiries](https://jsquared.com/general-inquiries) to begin the ordering process.

