



Increase readiness. The RS1.549S18 1.5U rugged server delivers proven reliability and computing performance in extreme and unpredictable environments – critical for successful execution of combat, sonar and electronic warfare applications across multiple configurations in the TI20 (Technical Insertion 2020) program.

At 18" (44.3 cm) and 25 lbs, the smaller, integrated footprint of the unit fits easily into standard rack slots, including S26-1. With greater weapons system availability, superior cooling and shock/vibe resistance, this 1.5U rugged server stands ready to perform.

Lives are on the line. Reliability matters. Warfighters achieve dominance with accurate, real-time information – which requires failsafe computer hardware that works in any condition. That's why all Crystal Group products are engineered and tested to meet or exceed strict MIL-SPEC standards.

Our unsurpassed thermal performance uses custom heat sink solutions and special air management techniques for the EW platform to perform in a 50°C ambient condition. Likewise, we meticulously fuse the unique GPU and networking capabilities with the latest Intel® Xeon® Scalable processors to deliver secure, near-zero latency at the tactical edge.

Combat-proven solutions you can trust. Fielding more than 20,000 servers for the U.S. Navy, Crystal Group solutions have demonstrated unmatched fielded reliability of greater than 99 percent. Key to our consistency is having the full design, development, testing and manufacturing team in-house. Using the latest COTS technologies for ease and speed of upgrades and reconfigurations, we're able to deliver customized solutions that meet the unique needs of any program on time and on budget.

Industry-leading support. Our expert staff and global network provide fast and effective product support when and where it is needed. Count on Crystal Group for fast response times, quick turnarounds, 5+ year warranties, and quality service around the clock and around the globe.

FEATURES

- SWFTS-TI20-C04-1 compliant chassis
- Rugged 1.5U, 18" rack mounted server
- Lightweight aluminum construction – 25 lbs.
- 256 GB of memory
- Easy, front access CMOS battery drawer
- 6x USB 3.0, VGA, 2x Gigabit LAN, IPMI, Serial
- Versatility with up to nine FIPS 140-2 removable 2.5" SSD bays
- Intel® Xeon® ES-2648L processors

A clear advantage.

Specifications

Chassis

SWFTS TI20-C04-1 compliant
 Height: 1.5U, 2.63" (6.67 cm)
 Width: 16.97" (443.42 cm) EIA-310 rack compliant
 Depth: 18" (45.72 cm)
 Weight: 25+/- 0.4 lbs. (11.4 kg)
 Remote battery tray, CMOS 2032, front access
 Rear ground stud ¼-20 UNC
 Decals: Front serial number, customer model number, battery decal ESD warning

CPU

Intel® CPU architecture options from Intel embedded long-life roadmap
 Two Intel Xeon E5-2648L V4, 1.8/2.5GHZ, 14-core, 9.6GT/S QPI, 2400MHZ
 DDR4, 35MB, LGA2011 R3, 75W

Motherboard

Supermicro®, Dual LGA2011 R3, X10DRW-I with IPMI LAN

Expansion

Two or three full height slots; combination is configuration dependent

Graphics Processing Unit

Two NVIDIA Quadro P2200, 5GB, 1280 CUDA cores, 4 DP, PCI-E 3.0 X16, FH, PNY VCQP2200-SB

Network Card

Two port, 1GB/10GB/25GB, SFP28 or direct attach, PCI-E 3.0 X8, LP, CHELSIO T6225-SO-CR, Kit-00285

Sound Card

Sound Blaster Audigy FX, 5.1 channel, 5 3.5MM, PCI-E 1.0 X1, LP, creative

Blu-Ray

BD-RW, DVD+/-RW, SATA, INT, ultra slimline, black, tray load, LG BU40N

Cooling

Four high speed, high volume fans, Hi/low fan CFM selection switch with lock-out

TPM Security

Module, TPM 2.0, horizontal, for Supermicro boards with 20 pin header, Supermicro, Intel Xeon E5 processors, AOM-TPM-9665H-S

Software Compatibility

Accepts Windows 10®, Windows Server 2016®, Windows Server 2012®, VMware® or Linux®

Power Supply

AC 120/240V, 50-60HZ, auto switching

Storage

Eight SSD, SATA, 240GB, 2.5" 7mm, 3D-TLC, 3.1W, 2.2PBW, TCG-E SED, Micron® 5200 MAX

One SSD, SATA, 256G, 2.5" 7mm, MLC, 8.1W, 0.3PBW, TCG-OPAL SED, read/write header, SMART HRS-M4

Memory

Eight DDR4 REG ECC RDIMM, 2666MHZ, 32GB (256GB)



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