

# CUTLASS

## SMALL FORM FACTOR

- ✓ Superior torsional strength aluminum alloy server
- ✓ Designed to support COTS Flex ATX for low cost rapid deployment
- ✓ Supports variety of COTS storage devices
- ✓ PCIe expansion options



## PRODUCT HIGHLIGHTS

- ✓ Intel® Xeon® Broadwell-DE processor D-1587 16-Core, 32 Threads
- ✓ Up to 128GB ECC RDIMM DDR4 2133MHz
- ✓ Mini PCI-E (mSATA support), M.2 PCI-E 3.0, M-Keyed and Disk-on-Module (DOM) Storage Options
- ✓ Dual 10G SFP+ and 6 x GbE LAN
- ✓ Dual USB 3.0 ports, 2 SuperDOM, 1 COM, TPM 2.0 header, GPIO and SMBus headers
- ✓ 2-slots of PCIe 3.0 expansion and robust card retention
- ✓ Machined aeronautical aluminum alloy for EMC/EMI compliance to MIL-STD-461F and weight, 4kg
- ✓ Fully qualified MIL-STD-810G @ 55,000 ft. altitude
- ✓ +18-36VDC Operation with programmable Temperature Supervisory Unit (TSU) for operation from -25 to +55°C
- ✓ In-line EMI/EMC filter + VICOR filter front-end module
- ✓ Front-to-Back air cooled enclosure with high-reliability fans
- ✓ 8 front panel LED indicators driven by the TSU & system board
- ✓ Depth: 286 mm (11.25")  
Width: 310 mm (12.2")  
Height: 141 mm (5.55")
- ✓ Made in Canada & USA



## FEATURES

<b>OPERATING SYSTEM</b>	Windows 10 Pro, Windows 10 Enterprise LTSB, Windows Server 2016 or Linux	<b>BIOS AND SOFTWARE</b>	AMI UEFI 2.4, Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
<b>PROCESSOR</b>	Intel® Xeon® Processor D-1587, 24M Cache, 1.70 GHz, 65-Watts TDP, Embedded FCBGA1667	<b>PERIPHERAL DEVICES</b>	2 USB 3.0 ports 1 VGA port, 1 COM Port 5 x MIL-C-38999 connectors provide: general purpose I/O signals, Ethernet, USBs, Fiber optical, etc. and, 2 power pins for 28VDC
<b>CHIPSET</b>	Intel® Xeon D Soc	<b>TRUSTED PLATFORM MODULE</b>	TPM 2.0 also supports Intel® vPro Technology and Intel® Trusted Execution Technology (Intel® TXT)
<b>MEMORY</b>	128 GB dual-channel DDR4 ECC memory up to 2133/2400 MT/s. (128 GB @ RDIMM 32 GB/DIMM, 64 GB @ UDIMM/SOD-IMM 16 GB/DIMM)	<b>POWER</b>	MIL-STD-461 compliant, military grade input power EMI Filter and 50ms Hold up @ 300W  28VDC(+18-36VDC) Operation with Temperature Supervisory Unit (TSU) -40 to +90°C 450W ATX output compatible with the military voltages and frequencies specified in MIL-STD-704 and MIL-STD-1275
<b>STORAGE</b>	SoC controller for four (4) SATA (6 Gb/s) ports; RAID 0,1,5, & 10 RSTe Broadcom® 2116 SW controller for sixteen (16) SATA (6 Gb/s) ports Optional 24-port, 12Gb/s SAS HBA or 24-Port 12Gb/s SAS/ SATA H/W RAID Controller port expansion card	<b>MECHANICAL</b>	Machined aeronautical aluminum alloy AW #6082 T651 overlapping panel extrusions, with aeronautical stainless steel captive screws, helicoils and assembly accessories  Corrosion resistant, MIL-STD-1547B chromate conversion coating on internal & external surfaces  Multilayer, military grade painting on external surface with primer Dimensions: Depth: 286 Width: 310 Height: 141 mm (11.25" x 12.2" x 5.55") Weight: 6.5 kg
<b>IPMI/BASE BOARD MANAGEMENT CONTROLLER</b>	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2400 BMC with VGA Graphics	<b>ENVIRONMENTAL</b>	Operating Temp: -25 to +55°C Storage Temp: -40 to +70°C Humidity: Tested to 95% Non-Condensing Vibration: Operating under random vibration per MIL-STD-810G Shock: Operating while exposed to 6g shocks per MIL-STD-810G Crash: Tested to 30g per MIL-STD-810G EMI/EMC: Tested per MIL-STD-461F and G
<b>ETHERNET LAN</b>	Quad LAN with 1GbE with Intel® I350-AM4 Dual LAN with 10G SFP+ from D-1500 SoC Dual LAN with 1GbE with Intel® I210	<b>OPTIONAL 3RD PARTY PCIE CARDS</b>	High Performance 3rd Party Graphics Reflective Memory Fiber / Copper Media 1GbE & 10GbE Ports MIL-STD-1553, ARINC 429 Ports
<b>SSD DEVICES</b>	MIL-STD-810-G qualified SATA-DOM SATADOM-ML 3MG2-P features: • Built-in Pin 8 power supply • Best boot drive solution for server and embedded system • SATA 6Gb/s interface • High IOPS to reduce boot up timing • Innovative Firmware Algorithm • Anti-vibration mechanical design • Built in iData Guard • Hardware write protection supported • P/N DGSML-B56D81BWBQCA-B401		
<b>EXPANSION SLOTS</b>	2 PCI-E 3.0 x8 1 M.2 SATA/PCI-E 3.0 x4, 2242/2280/22110		

## ORDERING INFORMATION

