

## MIL SPEC Rugged Portable Workstation



### The MesaMax<sup>®</sup> 8240 is the ultimate in ruggedization

The MesaMax<sup>®</sup> 8240 is a completely sealed dual-processor workstation. It houses two Xeon<sup>®</sup> 5600 processors (supporting up to 96GB of main memory), boasts dual 22" displays (driven by a high-performance nVidia Quadro FX1800 graphics subsystem) and supports three removable 1.2TB SSD magazines (up to 3.6TB total).

## MesaMax<sup>®</sup> 8240

<b>Processor/Motherboard</b>	Dual Intel Xeon 5600 processor. Supermicro X8DTL-6F motherboard.
<b>Memory</b>	Up to 48GB DDR3 (single processor) and up to 96GB (dual processor).
<b>Graphics Card</b>	nVidia Quadro FX1800.
<b>LCD Display Size</b>	Dual 22" 1680 x 1050 displays; high brightness: 1000nits/AR/AG.
<b>Std I/O Interfaces</b>	Four USB 2.0; two GbE; audio connector; MIL-STD 38999 connectors.
<b>Removable Drive Magazine</b>	Up to 6 removable 1.8" SSDs (up to 800GB per drive for a total of 4.8TB) organized into three 2-drive magazines behind a sealed door that can be opened without tools.
<b>Power Supply</b>	600Watt; 90 to 132VAC @ 50/60Hz or 400Hz.
<b>Software OS</b>	Windows 7 Pro; Microsoft Server 2012; or Redhat Enterprise Linux.
<b>Transit Case</b>	Customized rugged transit case that provides added protection and easy storage/transportation of the unit and its accessories. Most are rated IP-67 and MIL-STD 810G.
<b>Environment</b>	<p><b>Temperature:</b> Operating: -32 to 63°C; Storage: -33 to 71°C.</p> <p><b>-32°C Boot-Up:</b> Up to 20 minutes warm up cycle preceding booting into the OS.</p> <p><b>Relative Humidity:</b> Operating: 100%.</p> <p><b>Ice:</b> Ice load of 1.5g/cm<sup>2</sup>.</p> <p><b>Ozone:</b> Operates without degradation in 1.37 x 10<sup>-8</sup> lb/ft<sup>3</sup> (220 x 10<sup>-3</sup> kg/m<sup>3</sup>).</p> <p><b>Solar Radiation:</b> Operating: 1120watts/m<sup>2</sup> at 71°C.</p> <p><b>Altitude:</b> Operating: 10,650ft; Storage: 35,000ft.</p> <p><b>Atmospheric Pressure:</b> Operating: 20.05 to 31.9in of mercury.</p> <p><b>Rapid Decompression:</b> Pressure change corresponding to altitude change of 8,000 to 35,000ft in 30sec.</p> <p><b>Rain:</b> Operating: 2cm/hr; Storage (without case): tolerates 35-knot winds for 30 minutes (can handle 5 minute 40-knot gusts) with rainfall intensities up to 5cm/hr.</p> <p><b>Wind:</b> Operating: 25-knots.</p> <p><b>Drop:</b> Storage: 26 drops at 48in (including one drop per side, edge, and corner).</p> <p><b>Half Sine Shock:</b> Storage: Three 40G 11ms sawtooth pulses in each direction of each orthogonal axis for a total of six shocks per axis and repeated twice for a total of 36 shocks.</p> <p><b>Vibration:</b> Storage: MIL-STD 810G Method 514.6 (composite two-wheeled trailer profile).</p> <p><b>Salt-Fog:</b> Operating: 48 hour exposure with 5% concentration of salt.</p> <p><b>Sand/Dust:</b> Storage: Blowing dust and sand.</p> <p><b>Radiated Emissions:</b> Operating: MIL-STD 461F, RE102 for ground equipment.</p> <p><b>Fungus:</b> Operating/Storage: Passes MIL-STD-810F Method 508.5.</p> <p><b>Personnel ESD:</b> Operating: PESD requirement for discharge path of personnel (+/- 25,000volts).</p>

A fully-sealed machined aluminum chassis that provides extreme protection from the harshest conditions.



Up to 6 removable 1.8" SSDs (800GB per drive for a total of 4.8TB) organized into three 4-drive magazines.



Fully-sealed, IP65 -32 to 60°C with solar load.



Fully-accessible waterproof USB ports and removable hard drive array.



While Rugged Portable Computers LLC uses reasonable effort to ensure that this information is accurate and up-to-date, the information may contain factual or typographical errors. Rugged Portable Computers LLC makes no warranties or representation as to the accuracy of such information. The information and products may be changed at any time without prior notification or obligation. Rugged Portable Computers LLC © Copyright 2015.