The Maintenance Support Device – Version 4 (MSD V4) Rugged system is part of the Integrated Family of Test Equipment (IFTE) and the U.S. Army’s sixth generation at-platform multipurpose standard automatic test equipment (ATE). The MSD V4 systems are used throughout all levels of maintenance as the Army’s standard general purpose At-Platform Automatic Test System (APATS) to test and diagnose highly complex communications, other electronic commodity equipment, missiles, aircraft, and ground vehicles and to identify failed line replaceable units. Maintainers also use the MSD V4 systems to host interactive Electronic Technical Manuals (IETM), run specific applications and upload or download mission data or software.

All MSD V4 systems incorporate a Trusted Platform Module 2.0 (TPM) as part of a comprehensive Embedded Security architecture based on advanced Trusted Computing Technologies. The Hardware Root of Trust built by the MSD Embedded Hardware Security subsystem provides a unique and advanced foundation for Cybersecurity threat protection.

All MSD V4 computers reside on an evolving Technology Roadmap. Leonardo DRS is committed to providing next generation computing systems to equip MSD operators with the latest technologies. New computers with advanced processors and expanded memory can be introduced as they become available; and will be backwards compatible with fielded systems.

MSD V4 is a next generation leap with COTS technologies ensuring MSD operators have the very best in test equipment from Unit to Depot to the Services level.
**MSD V4 RUGGED**

**HIGHLIGHTS**
- Rugged portable design
- Convertible
- Multiple power sources
- Outdoor/Daylight Display

**COMPUTING CAPABILITY**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel i5-6300 Processor</td>
</tr>
<tr>
<td>Memory</td>
<td>8GB DDR4 2133 MHz Ram</td>
</tr>
<tr>
<td>Storage</td>
<td>Removable 512 MB SATA SSD hard drive</td>
</tr>
</tbody>
</table>

**PHYSICAL FEATURES**

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>MEASUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>6.0 lbs (2720 grams)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12.5 in wide x 9.5 in deep x 1.75 in height</td>
</tr>
<tr>
<td>Display</td>
<td>11.6” High definition LED LCD w/ touchscreen and Corning Gorilla Glass</td>
</tr>
<tr>
<td>Ports</td>
<td>HDMI port, 15 pin VGA port, 1 Universal Audio port 3.5 mm2 USB 3.0 type A port with power share, 1 USB 2.0 type A port, 1 Serial RS232 port, 1 Gigbit Ethernet port (RJ45)</td>
</tr>
<tr>
<td>Rugged</td>
<td>Fully sealed rubberized keyboard, contactless Smartcard reader, (NFC) Smartcard, (CAC) slot, SD card slot, SIM card slot, built in WiFi and Bluetooth, docking station compatible</td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL**

**OPERATING ENVIRONMENT**
- Operational, -20° to 140° F
- Non-operational, -60° to 160°F
- Battery Operating Temp, 0° to 140°F
- Operating time on battery > 6 hours, and Recharge times < 3 hours
- Altitude, 15K feet (Operational), 30K feet non-operational

**ACCESSORIES**

**STANDARD**
- Wired Mouse
- NATO Cable
- Network Cable
- Blu-Ray Player
- DC Power
- AC Power
- Recovery Disc
- Euro Power Adapter

**OPTIONAL**
- Spare Computer Battery
- PCMCIA Card Reader
- IUID Reader
- IUID Case
- Express Card Reader
- 1553 Adapter
- RS232/485/422 Adapter
- 400Hz Power Supply