The M8™ is the latest addition to the Data911 M Series of rugged mobile computers that have served the Public Safety sector since 1984. All M series computers are designed for harsh vehicular environments and extreme temperature conditions. The modular 3-piece design allows for a variety of airbag-compliant mounting options and cost-effective upgrades. The M8 is backward compatible with all generations of Data911 M series mobile computers.

**KEY FEATURES**

- Smaller, space-efficient console
- Extremely low power draw
- Dual monitor output & more I/O options
- Sunlight readable, multi-touch capacitive display
- Powerful Intel Core i7 processor
- 16GB RAM, standard
- Industrial-grade solid state drives up to 1TB
- Windows 10 Pro
- New power control module features
- Widest operating temperature range in the industry (-30° to 70°C)
- Standard 3-year warranty, extendable to 10+ years

www.data911.com | sales@data911.com
## CPU Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>i7-5650U</td>
</tr>
<tr>
<td>Die Technology</td>
<td>14 nm</td>
</tr>
<tr>
<td>Chipset</td>
<td>SoC</td>
</tr>
<tr>
<td>Cache</td>
<td>4MB</td>
</tr>
<tr>
<td>Bus Speed</td>
<td>5 GT/s DMI2</td>
</tr>
<tr>
<td>Memory Technology</td>
<td>DDR3L-1866 SO-DIMM, 16GB standard</td>
</tr>
<tr>
<td>Video Technology</td>
<td>Intel® HD Graphics 6000 – up to 16GB</td>
</tr>
<tr>
<td>Hard Drive Technology</td>
<td>Serial 3.0</td>
</tr>
<tr>
<td>System Fan</td>
<td>Variable Speed - BIOS Controlled</td>
</tr>
<tr>
<td></td>
<td>4 fans total (2 external 2 internal)</td>
</tr>
</tbody>
</table>

## Hard Drives Industrial Grade (Solid State)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>128GB standard, 256GB, 512GB, 1TB optional</td>
</tr>
<tr>
<td>Vibration Specification</td>
<td>20 G RMS</td>
</tr>
<tr>
<td>Shock Specification</td>
<td>1500 G</td>
</tr>
<tr>
<td>Thermal Specification</td>
<td>-40°C to 85°C</td>
</tr>
</tbody>
</table>

## Internal Devices

<table>
<thead>
<tr>
<th>Device</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>WiFi</td>
<td>802.11 a/b/g/n/ac</td>
</tr>
<tr>
<td>GPS</td>
<td>Internal GPS with Dead Reckoning (optional)</td>
</tr>
<tr>
<td>Broadband</td>
<td>Will support all major carriers (optional)</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>Version 4.1 available with M8+ display</td>
</tr>
</tbody>
</table>

## Ports & Connectors

<table>
<thead>
<tr>
<th>Port Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB 2.0</td>
<td>1 USB 2.0 front, 2 USB 2.0 rear, 2 USB 3.0 rear, 3 USB 2.0 with M8+ display</td>
</tr>
<tr>
<td>Serial Ports</td>
<td>2 rear DB9</td>
</tr>
<tr>
<td>Display Connectors</td>
<td>1 - rear DVI-I (digital + analog), 1 - rear DVI-D (digital only), 1 - LVDS rear (optional)</td>
</tr>
<tr>
<td>Single screw removable hard drive</td>
<td>front</td>
</tr>
<tr>
<td>Ethernet</td>
<td>2 - 10/100/1000 Mbps rear (Intel PRO/1000), 2 - 10/100/1000 Mbps rear (Intel PRO/1000) with POE</td>
</tr>
</tbody>
</table>
**POWER SUPPLY**

| Form Factor       | Internal Power Supply |

**ELECTRICAL ENVIRONMENT**

The M8 supports 12V operation for installation in vehicles without power converters.

**Power Source Options**

- Vehicle Battery 12V, Negative Ground

**Input Voltages**

- 10 to 18VDC with no loss of functionality

**Power Consumption**

- Off ≈ 0.010A
- Hibernate ≈ 0.030 Amps
- Rest (Display blanked) 1.70 Amps
- Typical (Display in day mode) 2.60 Amps
- Maximum ≈ 4.2 Amps

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**POWER CONTROL MODULE (PCM) AND MDC MANAGER SOFTWARE**

The M8 features a Power Control Module (PCM) which initiates a graceful shutdown of the system and reduces draw on the battery.

**PCM and MDC Manager**

- Ignition-based startup and shutdown
- Low voltage monitoring and shutdown to protect vehicle battery
- Temperature monitoring to prevent system damage from operating outside of safe limits
- Monitoring of system power supply output
- Watchdog timer to prevent dead vehicle battery in the event of an operating system lockup

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**KEYBOARDS**

**Backlit Illuminated Keyboard with Touchpad**

- 82 key compact QWERTY design
- USB Connector
- Plastic injection molded top with metal bottom for ease of customizing mounting techniques
- 8 levels of backlight intensity
- Overall dimensions: 196.9 x 304.8 x 31.8 mm (7.75 x 12 x 1.2 in)
- Weight: <1kg (<2 lbs)

**Watertight Rugged Duty Keyboard**

- 88 key compact QWERTY design
- USB Connector
- Fully sealed with integrated pointing device
- Watertight: NEMA 4
- 6 levels of backlight intensity
- Overall dimensions: 160 x 289.6 x 41.8 mm (6.3 x 11.4 x 1.7 in)
- Weight: <1kg (<2 lbs)
M8 MULTI-TOUCH DISPLAY

The Data911 Multi-Touch Display was specifically designed for Emergency Vehicles based on input from first responders. Key features include the zero bezel design, multi-touch sunlight readable screen, ability to support 5-finger touch (including gloved fingers), dedicated programmable backlit buttons, automatic Blank on Motion, single touch Stealth Mode, built-in thermal protection to withstand high temperatures, chemically strengthened touch glass and more. Data911 offers a dual display option (driven by one CPU) for advanced efficiency in the field for fire rigs, EMS and command vehicles.

**M8 12.1 INCH DISPLAY:**
- Display type: Active Matrix Color
- Display resolution: 1024 x 768 XGA
- Display viewing area: 12.1 inches diagonal
- Brightness: 1600 NITS
- Backlight type: LED
- Viewing angle: +/- 80 degrees
- Touch panel: Projected Capacitive
- Bluetooth: BT 4.1 transceiver
- Programmable Function Buttons: Qty 3
- Construction: Plastic and Steel
- Dimensions: 244 x 274 x 25 mm (9.025 x 10.995 x 1.0 in)
- Weight: 2.72kg (6 lbs)

**M8 15.0 INCH DISPLAY:**
- Display type: Active Matrix Color
- Display resolution: 1024 x 768 XGA
- Display viewing area: 15.0 inches diagonal
- Brightness: 1600+ NITS
- Backlight type: LED
- Viewing angle: +/- 80 degrees
- Touch panel: Projected Capacitive
- Bluetooth: BT 4.1 transceiver
- Programmable Function Buttons: Qty 4
- Construction: Plastic and Steel
- Dimensions: 295.3 x 346 x 25.4 mm (11.625 x 13.625 x 1.0 in)
- Weight: 4.53 kg (10 lbs)

We offer free evaluation trials of our systems. Contact us at 510.865.9100 or sales@data911.com for more information.

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