Data911®

A **BMS** Solution

M8™ IN-VEHICLE COMPUTER SYSTEM

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

- Customizable GPS/LTE upgrades available
- 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 2-year warranty, extendable to 5 years

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CPU SPECIFICATIONS

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

HARD DRIVES INDUSTRIAL GRADE (SOLID STATE)

Capacity 1	28GB standard, 256GB, 512GB, 1TB optional
Vibration Specification	20 G RMS
Shock Specification	1500 G
Thermal Specification	-40° C to 85° C

INTERNAL DEVICES

WiFi	802.11 a/b/g/n/ac
GPS	Internal GPS with Dead Reckoning (optional)
Broadband	Will support all major carriers (optional)
Bluetooth	Version 4.1 available with M8+ display

PORTS & CONNECTORS

USB 2.0	■ 1 USB 2.0 front ■ 2 USB 2.0 rear ■ 2 USB 3.0 rear ■ 3 USB 2.0 with M8+ display
Serial Ports	2 rear DB9
Display Connectors	■ 1 - rear DVI-I (digital + analog) ■ 1 - rear DVI-D (digital only) ■ 1 - LVDS rear (optional)
Single screw removable hard drive	front
Ethernet	■ 2 - 10/100/1000 Mbps rear (Intel PRO/1000) ■ 2 - 10/100/1000 Mbps rear (Intel PRO/1000) with POE

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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

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

POWER CONTROL MODULE (PCM) AND MDC MANAGER SOFTWARE

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
Construction	Plastic and Steel
Dimensions	244 x 281 x 25 mm (9.606 x 11.063 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
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)