MAHLE

> # Portable vehicle manufacturing tester

The DataLogiq3 (DL3) is a small integrated computing device intended for "set it and forget it" electrical testing and module programming in vehicle assembly plants, beginning at battery connection on the assembly line. DL3 utilizes a MAHLE proprietary high-speed, parallel vehicle network interface with user selectable OBD-II pins to perform diagnostics, and simultaneously program multiple modules. A fast Qseven, Intel® Atom™ E3900 single-board computer with Windows IoT Enterprise runs TestLogiq to execute data driven, state-machine based, parallel vehicle network communication.

Features:

- Large LCD screen keeps operators aware, and supports touch screen input for repair bay
- MAHLE AdminLogiq & ReportLogiq handle updates & result reporting
- Can be powered from quick charging UltraCaps, or long-duration batteries
- Docks are available for charging & hot insertion to vehicles
- Optional location-tracking supports assembly line position-based vehicle test, configuration & programming events, plus position reporting

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Technical feature	Specification
Input Voltage	9.5 to 32 volts DC
Current Consumption	Sleep: 50mA @12 VDC; Max operational: 4.6 @ 12VDC (ultracap charging)
Power Sources	Vehicle Battery; Internal Battery; Internal Ultracapacitor; External DC power supply
Operating Temperature	-40° to +50° Celsius
Humidity	10 to 95% RH
Dimensions (L x W x H)	10.5 in x 5 in x 6 in (266mm x 127mm x 152mm)
Enclosure	ABS -black
Memory	128 GB SSD, 8 GB microSD (removable) 4 GB RAM
Processor	1.6 GHz Dual Core Intel Atom
External Connectors / Interfaces	(1x) 19 pin Amphenol connector for the vehicle diagnostic cable connection
	(2x) USB 2.0 host connections
	(1x) Docking Station Connector
Plant Interface	802.11a/b/g/n/ac; Bluetooth 5.1; 802.15.4
Operator I/O	Input: (7x) high life, color-coded, membrane push buttons for start/abort , on screen options, and barcode scanner trigger; 2-D Imager Barcode Scanner (optional) ; Display: 7" TFT LCD touchscreen monitor; Buzzer for audio feedback
Status Indicators	Tri-Colored Power & Status LED
Cert. / Tested Standards	CE
Vehicle Network Interfaces	3 dual wire CAN 2.0/CANFD channels with 8 pin switch options
	1 single wire fault tolerant CAN channel
	1 ISO9141 channel (ISO-K, DiagH)
	1 DoIP channel supporting both pin options. DoIP Activation Line.