

LUIS Gen1 vs. LUIS Gen2

Hardware Feature	LUIS Gen1	LUIS Gen2
Switch Outputs	37	40 per Switch module (4"x10"x6") + (1) 30A VBATT + (4) 15A VBATT (4 modules max)
Analog Outputs	44 (32 parent + 12 sidecar)	32 per Analog module (4"x10"x6") (4 modules max)
Analog Output Range	(40) 0-5.5V, (4) 0-24V	(32) 0-15V per module
Analog Output Current	Various, 0.5mA – 6mA	20mA
Analog Output Resolution	(40) 12 bit, (4) 8 bit	16 bit
Analog Output Accuracy	Various, +/- 0.2% to 5%	+/- 0.1%
Frequency Outputs	8 (max)	18 (max) per Wavemaker module
Loads	18 + injectors	36 per Resistive module + injectors
Control Method	J1939 / RS232	USB / RS232
All analog outputs protected from indefinite VBATT/GND shorts	NO	YES
Front panel Key/VBATT Protected	NO	YES (30mA current limited)
Easily Upgrade Technology For example, upgrade analog output circuits to 0-24v range by replacing the Analog Module main card	NO	YES
Modular Design	NO	YES
Support for New Sensor Technology via add-on HW Modules (ie. Encoded outputs on a single wire)	NO	YES
Service Contract Available	NO	YES
VBATT Supply included inside	NO	NO
System Cost	\$6320	\$8287*
Approximate Dimensions	17.5" x 11.5" x 3.5"	24" x 10" x 6"*
Software Feature	LUIS Gen1	LUIS Gen2
Gauge Instrument Count	Limited	Unlimited
Movable Instrument Windows	NO	YES
Plugin Capability	NO	YES
Resizable Gauges	NO	YES
Native Win7 32bit Support	NO	YES
Support Microsoft .net 3.5 Framework	NO	YES
Special Sensor Support via Plugins (additional HW may be required)	NO	YES
Data Player	YES	NO
Closed Loop Engine Speed	YES	YES
Drag and Drop GUI Component Placement	NO	YES
J1939 Sensor Support	NO	YES
Firmware Download	YES	YES
Waveform Editor	NO	YES
Load on/off feedback to PC	NO	YES

*Estimate as of 6/2011 includes (2) Analog modules, (1) Switch module, (1) Main module, (1) Wavemaker III module, and (1) Load module.