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The New Products Journal

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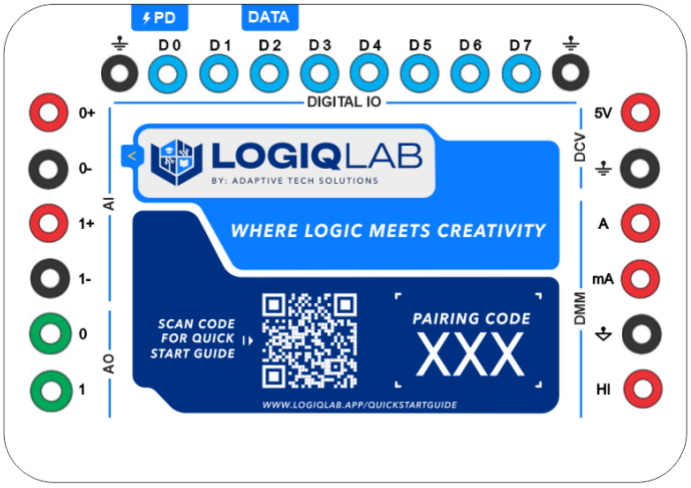
The Purpose of the Journal is to introduce the new products, solutions, and technologies that have been designed and developed in the Engineering City.

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. LogiqLab Smart Hub – *by Project Integration*

The *LogiqLab Smart Hub* (**LL Smart Hub**) is a multifunctional data acquisition device (**DAQ**). It combines Analog Inputs (AI), Analog Outputs (AO), Digital Inputs/Outputs (DIO), Fixed Power Supply, and Digital Multimeter (DMM) in a single device. This is a multipurpose measurement device, but it is mostly used for education.



Pic. LogiqLab Smart Hub bundle

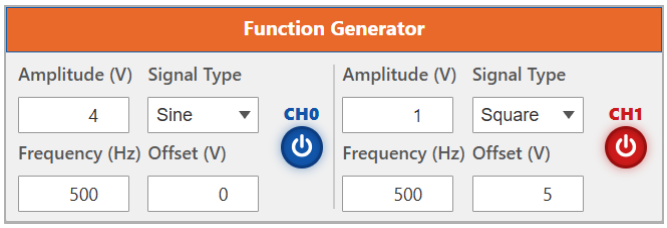
. LogiqLab Smart Hub Specifications

Instrument	Parameter	Value
Digital Input/Output	Number of channels	8
	Logic family	CMOS
	Output max current	16 mA
	I/O direction	Programmable
Analog Input	Number of channels	2
	Connection type	Differential

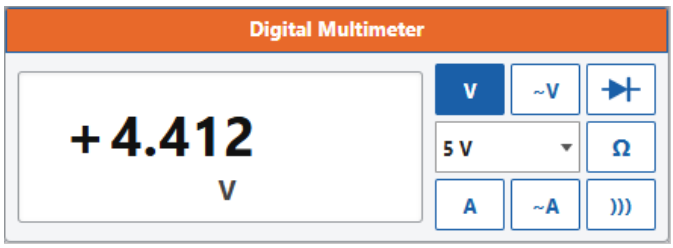
	Input range	-10 V to 10 V
	Resolution	24 bit
	Sample rate	96 kHz
Analog Output	Number of channels	2
	Connection type	Single Ended
	Output range	-10V to 10V
	Resolution	24 bit
	Update rate	96 kHz
	Output max current	50 mA
Digital Multimeter	Measurement modes	DC Voltage, AC Voltage, DC Current, AC Current, Resistance, Diode, Continuity
	Voltage measurement ranges	-5 V to 5 V -50 V to 50 V
	Current measurement ranges (mA input)	5 mA 50 mA 500 mA
	Current measurement ranges (A input)	-50 mA to 50 mA -500 mA to 500 mA -5 A to 5 A
	Resistance measurement ranges	50 Ohm 500 Ohm 5 kOhm 50 kOhm 500 kOhm 5 MOhm
	Diode measurement range	2.5 V
	Resolution	4.5 Digit
Voltage Source	Voltage	5 V
	Output max current	100 mA
Connectivity	Interface	Type C, WiFi
Power	Protocol	9 V Quick Charge 3 12 V Power Delivery
	Max current	1.25 A
	Connector type	Type C
Physical	Dimensions	136x95x33 mm
	Weight	230 g

. LogiqLab Smart Hub Software Panels

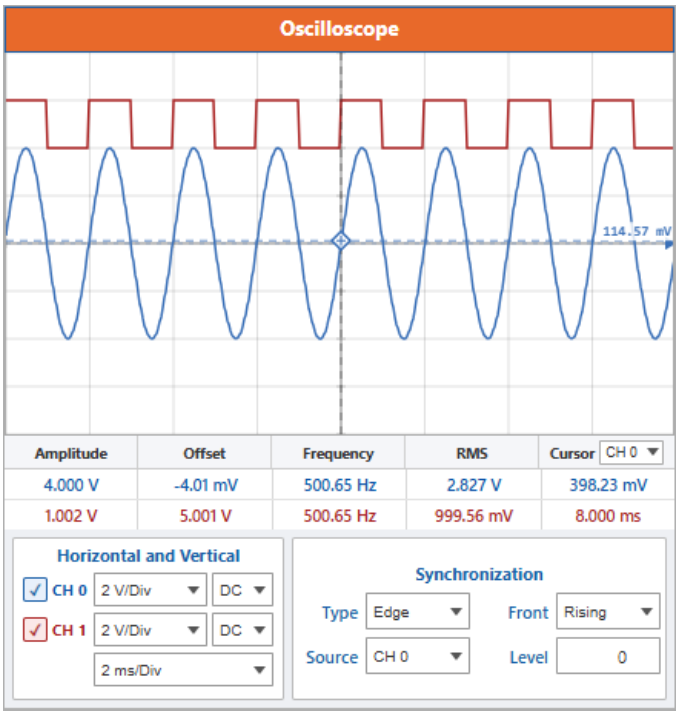
The Smart Hub has its own custom soft front panels that are very close to industry grade instruments but are much simpler for school level students. The software part is web based which makes it OS independent and can be run in many devices such as laptops, tablets and phones.



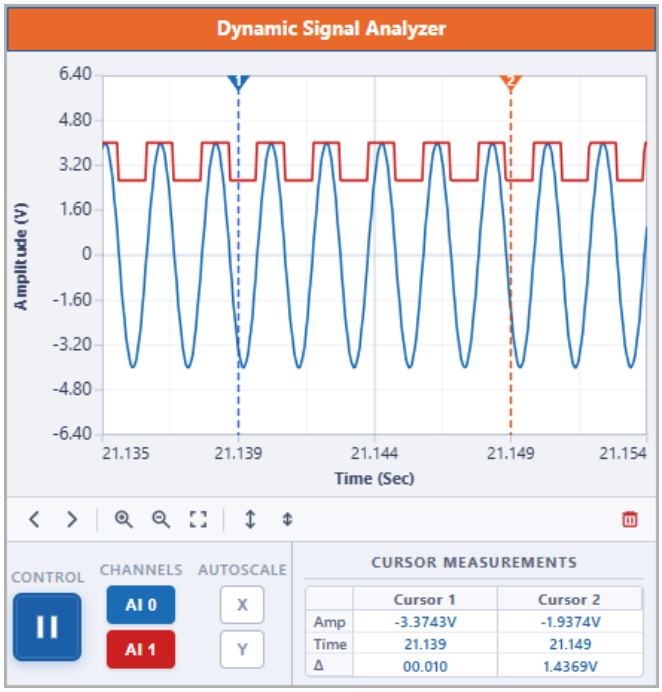
Pic. Function Generator



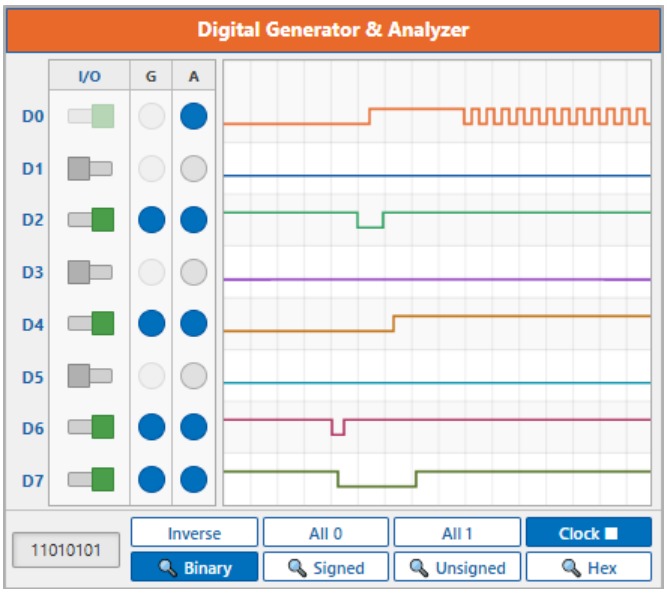
Pic. DMM



Pic. Oscilloscope



Pic. Dynamic Signal Analyzer



Pic. Digital Generator & Analyzer



Pic. Displaying the LogiqLab Smart Hub in the Cafeteria

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