

What are the differences between each iTriangle set?

The iTriangle sets are available in five versions. Each differs in the amount of construction blocks and smart items and has different uses. All iTriangle sets are precisely manufactured to meet STEM requirements and target different curriculums and markets.

The table below shows the main differences

iTriangle Set	# of construction blocks	# of sensors	# of actors	type of master unit	target market	# of curriculum materials included
iTriangle EDU set v1.0 	320 pcs	13 pcs	6 pcs	iTriangle MASTER	Primary school	15 complete classes with 45 task variations
iTriangle EDU set v2.0	322 pcs	12 pcs	6 pcs	iTriangle 4.0 online unit + display	Broad EDU, primary, secondary and university	15 complete classes with unlimited variations + online coding
iTriangle START set	214 pcs	9 pcs	7 pcs	iTriangle 4.0 online unit	Primary, secondary + free time activity centers	30 tasks + unlimited variations + online coding
iTriangle STEM set	166 pcs	11 pcs	3 pcs	iTriangle 4.0 online unit	Primary, secondary schools with an environmental focus	10 tasks + unlimited variations + online coding
iTriangle Home set	204 pcs	5 pcs	3 pcs	iTriangle 4.0 online unit	free time activity + home tutoring	10 tasks + unlimited variations + online coding

Base unit types

iTriangle MASTER

- Control interface with a 2.8" touchscreen and integrated battery
- Intuitive control with complete OFFLINE work – nothing more to connect
- Export processed and evaluated data to MS Excel
- Connect control components
- Graphically display connected sensors and actors
- Power bank 5600 mAh
- Communicate with the Educational, Sensor and Actuator kits
- Compatible with Lego bricks



[LNriv0uxTiig8EQd-screens.JPG](#)

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The biggest advantage of this unit is standalone work. You don't need a computer to work with it and it is completely offline. The offline version has only one disadvantage. You can only use it for 15 complete classes prepared in advance for 45 variations in the curriculum. Other new classes have to be manually uploaded by computer. Five new classes are regularly deployed and uploaded for users.

iTriangle 4.0 online unit

This unit is the innovative iTriangle MASTER unit. It is delivered with an external power bank and

three AAA batteries to power it. The power source is easily changed if it is empty. An optional 2.8" touch screen colour interface has the same functionalities as the iTriangle MASTER unit as well as free screens for use with your own prepared tasks.

The iTriangle 4.0 is an ONLINE unit and can be connected via WiFi to the internet and easily controlled with a web application. This software interface lets you control MAJOR features:

- Measure with several sensors at once and easily exporting data to MS Excel
- Easily download updates, new tasks and classes
- Unlimited variation in use. You can create your own experiments and easily program code in the Blockly coding environment
- Update code and disconnect from the internet to work OFFLINE
- Minimalist design. It can be used with many other small, final products
- Incorporates notions of the IoT and Industry 4.0 natively in school classes
- Motivates students to create their own code and think about how it works
- Online debug view for agile managed development

List of sensors and components in each set

The table below shows a list of items in each iTriangle set

	Name	iTriangle EDU set v1.0	iTriangle EDU set v2.0	iTriangle START set	iTriangle STEM set	iTriangle Home set
ygC4dpFFUJGfz-16.png Image not found or type unknown	4 in 1 sensor	1 pc	1 pc	1 pc	1 pc	-
z0kpyOaqYlw31DFD-9.png Image not found or type unknown	Push button switch	1 pc	1 pc	1 pc	1 pc	1 pc
83EOMS9cfFUWeNBx-14.png Image not found or type unknown	Buzzer	1 pcs	1 pc	1 pc	1 pc	1 pc
uEoMvXmFFmNiqNq8-17.png Image not found or type unknown	Continuous servo 360 dg	-	2 pcs	1 pc	-	1 pc

	Name	iTriangle EDU set v1.0	iTriangle EDU set v2.0	iTriangle START set	iTriangle STEM set	iTriangle Home set
GPTyw1bgxHCbWE0n-4.png	Hall Sensor	1 pc	1 pc	-	-	-
Image not found or type unknown						
GpH3PjtqtEnLeHSo-7.png	IR sensor	2 pcs	2 pcs	2 cs	2 pcs	1 pc
Image not found or type unknown						
sxRK01UYZa84V9cz-26.png	LED matrix 8x8	-	1 pc	1 pc	1 pc	-
Image not found or type unknown						
BILtbSOB5zMvEb4w-22.png	LED stripe	-	-	-	-	1 pc
Image not found or type unknown						
rQLxsuyrcolUfM3j-28.png	Light sensor	-	-	1 pc	1 pc	1 pc
Image not found or type unknown						
4WBIselTVnVUaG3v-2.png	Luminance sensor	1 pc	1 pc	-	-	-
Image not found or type unknown						
xi4F7q0JtUWqdaAm-23.png	Moisture sensor	-	-	1 pc	1 pc	1 pc
Image not found or type unknown						
ck9OJD2JJ7aNnzG6-24.png	PIR motion sensor	-	-	1 pc	1 pc	1 pc
Image not found or type unknown						
zTTzlg8td9D3vPnv-5.png	High pressure	1 pc	1 pc	-	-	-
Image not found or type unknown						
yJuLceDivNLObb5q-10.png	Relay	1 pc	1 pc	1 pc	-	-
Image not found or type unknown						
ku1JFvoGLZZNdNBg-11.png	Servo 180 dg	1 pc	2pcs	2pcs	1 pc	1 pc
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	Name	iTriangle EDU set v1.0	iTriangle EDU set v2.0	iTriangle START set	iTriangle STEM set	iTriangle Home set
A2zNdkmaZ6FtA0NH-3.png	Sound sensor	1 pc	1 pc	-	-	-
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obqeYyqj7M3OVDVy-6.png	Thermometer	1 pc	1 pc	1 pc	1 pc	-
Image not found or type unknown						
1azbMyrgwiYMET4g-27.png	Temperature and humidity sensor	-	-	1 pc	1 pc	-
Image not found or type unknown						
wlnP2Dm0E0dtBwDJ-15.png	High accuracy temperature and humidity sensor	1 pc	1 pc	-	-	-
Image not found or type unknown						
83EOMS9cfFUWeNBx-14.png	Tone generator	1 pc	1 pc	1 pc	1 pc	1 pc
Image not found or type unknown						
uDscCx8D0zyvBJbh-8.png	Ultrasonic ranger	1 pc	1 pc	1 pc	1 pc	1 pc
Image not found or type unknown						
aoEhZmEmmt4sXxLX-1.png	Voltage divider	1 pc	1 pc	1 pc	1 pc	1 pc
Image not found or type unknown						
UrsBuipj8AJhm2y6-25.png	Water pump	-	-	1 pc	-	1 pc
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Revision #19

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