Intelligent Brick

Product number:	45500
Product name:	LEGO® MINDSTORMS® Education EV3 Intelligent Brick
Age:	10-21
Theme:	LEGO® MINDSTORMS® Education
Related products:	45501, 45502, 45503, 45505, 45506, 45507, 45508, 45509, 45514, 45515, 45516, 45554, 45560, 2000045, 2000046, 2005544
Product text:	This programmable, intelligent brick serves as the heart and brain of LEGO MINDSTORMS Education EV3 robots. It features an illuminated six-button interface that changes color to indicate the brick's active state, a high-resolution black and white display, built-in speaker, USB port, a mini SD card reader, four input ports and four output ports. The brick also supports USB, Bluetooth and Wi-Fi communication with a computer and has a programming interface that enables programming and data logging directly onto the brick. It is compatible with mobile devices and is powered by AA batteries or the EV3 Rechargeable DC Battery

Technical Specifications
ARM 9 Processor, 300 MHz with Linux-based operating system
4 input ports for data acquisition of up to 1000 samples per/sec
4 output ports for execution of commands
On-board program storage including 16 MB of Flash memory and 64 MB of RAM
Mini SDHC card reader for 32 GB of expanded memory
Illuminated, 3-color, 6-button interface that indicates the brick's active state
Hi-resolution 178x128 pixel display enabling detailed graph viewing and sensor data observation
High-quality speakers
On-brick programming and datalogging that can be uploaded into the EV3 software
Computer-to-brick communication though on-board USB, or external wifi or Bluetooth dongles
USB 2.0 host enabling brick daisy chaining, wifi communication, and USB memory sticks
Powered by 6 AA batteries or the 2050 mAh lithium ion EV3 Rechargeable DC Battery

LEGO mindstorms education EV3