



MOBLO

Moblo 5X5 User manual

Configuration Moblo

■ Product configuration & function : Based on Junior package

Configuration	EA	Function
Board plate	1	• 9 blocks are stacked on each coordinates. • Total 25ea coordinates can be recognize in length and breadth. • Bluetooth® V4.0 supported, writhing with tablet PCs. • Firmware update by USB port
3D block	0	• 7 colors • Inner LED can be lighting. • Stacked on the board plate or can stack another blocks on the top.
Shape block	0	• 7colors • Inner LED can be lighting on the board plate and 3D blocks.
NFC block	0	• NFC(Near Filed Communication) supported • NFC figures and cards can be stacked. • Stacked on the board plate or can be stacked on the top of 3D blocks.
Touch block	0	• Inner touch sensor using electrostatic • Motor block and mobile contents can be operated by a touch. • Stacked on the board plate or can be stacked on the top of 3D blocks.
Motor block	0	• Various devices attached to the shaft and can be rotated. • In addition to propeller offered using Lego blocks etc., various formation is possible. • Stacked on the board plate or can be stacked on the top of 3D blocks.
NFC figure	0	• NFC(Near Filed Communication) supported • A figure comes to realization in the contents of Moblo, Block maker, Story maker etc. • Available on the top of NFC blocks only
NFC card	0	• NFC(Near Filed Communication) supported • A property of cards comes to realization in the contents of Moblo, Story maker, Moblo a to z, Math monster etc. for learning. • Available on the top of NFC blocks only
Propeller	0	• Motor block attached • A rotation realization in the contents of Moblo, Block maker etc.
Power adaptor	1	• For power supply • Connected to the power port of the board plate
User manual	1	• Specifications, configuration, basic explanation, warning etc.

Configuration Moblo

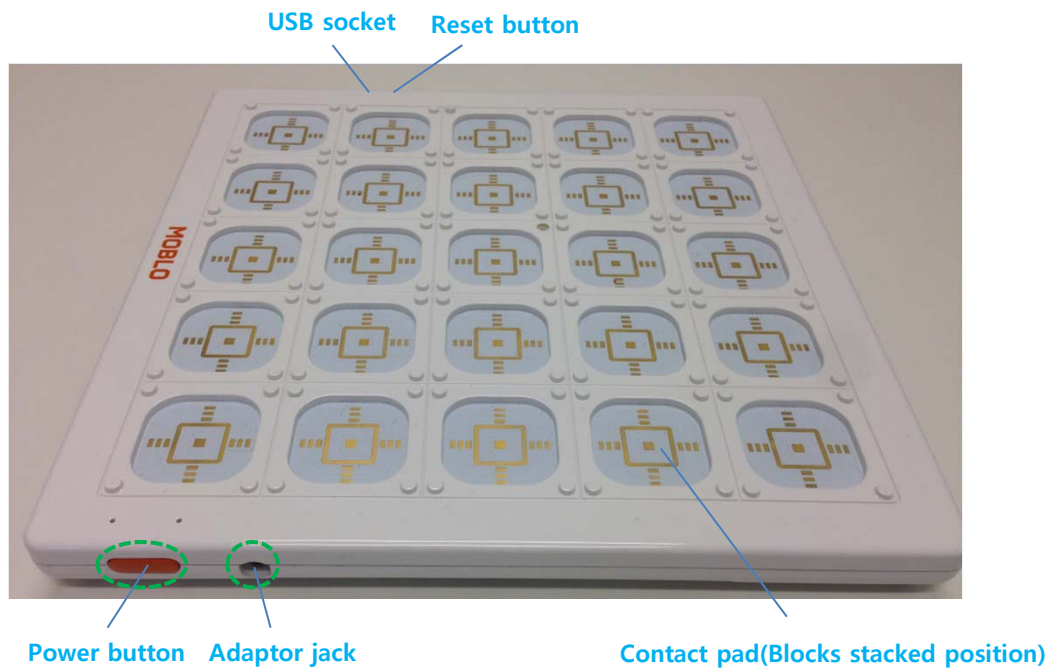
■ Certification numbers : Korea Certification

Products	KC numbers
Board plate	MSIP-CMM-M3B-MBL2C-BP55
3D block	MSIP-REM-M3B-MBL2G-3D
Shape block	MSIP-REM-M3B-MBL2G-S
NFC block	MSIP-CMM-M3B-MBL2G-N
Touch block	MSIP-REM-M3B-MBL2G-T
Motor block	MSIP-REM-M3B-MBL2G-M



Moblo description

■ Board plate



■ 3D blocks



- 1layer block : 7colors, built in LED

■ Shape blocks



- Building roof or top description
- 7 shapes
- 7 colors
- Built in LED
- Used on the top of board plate, 3D blocks

Moblo description

■ NFC blocks



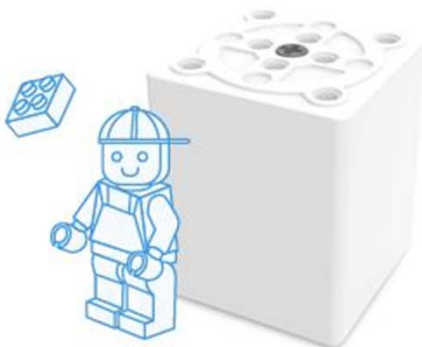
- NFC(Near Field Communication) supported
- NFC figures and cards can be stacked.
- Used on the top of board plate, 3D blocks

■ Touch blocks



- Inner touch sensor using electrostatic
- Top, bottom, left and right input touched
- Another blocks or function of contents controlled
 - Motor, LED lighting, moving the character in the mirror-world
 - Installed beside the working blocks
- Used on the top of board plate, 3D blocks

■ Motor block



- Clockwise and counter-clockwise rotation
- Speed and direction control
- Lego blocks can be attached.
- Used on the top of board plate, 3D blocks

■ NFC figure



- NFC(Near Field Communication) supported
- 5 characters : Elephant, puppy, rabbit, bear, fox
- Matched with character in the contents
- Used on the top of NFC blocks

Moblo description

■ NFC card



- NFC(Near Field Communication) supported
- Realization thru the mirror-world with contents
- Available on the top of NFC blocks only

■ Propeller



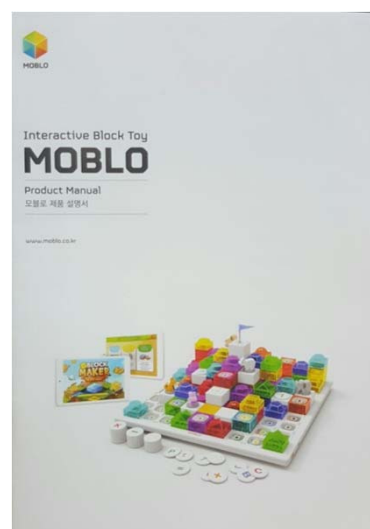
- Motor block attached
- A rotation realization by the contents

■ Power adaptor



- Input : AC 100~240V / 0.8A max.
- Output : DC 5V/4A max.
- For power supply

■ User manual



How to use Moblo

■ Contents running scene



(Ex.)Block maker

After Bluetooth pairing, click the 'O.K' icon

■ Contents utilization



(Ex.)Block maker

Make use of contents using the board plate, blocks, NFC cards, NFC figure etc.

Moblo specification

■ Board plate

Item	Description
Power	- Input : 5Vdc/4A max. Adaptor - Output : 5Vdc
RF	- Bluetooth® V4.0 low energy - GFSK modulation 2.4GHz ~ 2,4835GHz - Inverted F antenna by PCB pattern
I/O	- USB 2.0 'A' type socket(for debug port) 1ea - H/W reset button 1ea
Size	280 X 280 X 28mm(max.)
Weight	about 1.0Kg
Operating Temp.	0°C ~ +50°C

■ Blocks :

Item	Description	Blocks
Power	• Input : 5Vdc	• All
	• Output : 5Vdc	• 3D blocks
I/O	• UART 1ch	• 3D blocks, NFC blocks, Touch blocks, Motor block
	• ADC 1ch	• Shape block
Display	• White LED chip	• 3D blocks, Shape blocks
RF	13.56MHz - ISO/IEC 14443 A/B - ISO/IEC 15693 - ISO/IEC 18092	• NFC blocks
Antenna	• Loop antenna by PCB pattern	• NFC blocks
Motor	• 4.5Vdc/1.5rpm/Torque 250gcm/0.5W	• Motor block
Size	47 X 47 X 33mm 47 X 47 X 32mm 47 X 47 X 62mm	3D blocks, Shape blocks - NFC blocks, Touch blocks - Motor blocks
Weight	- about 28g - about 38g - about 40g - about 81g	- Shape blocks - NFC blocks 3D blocks, Touch blocks - Motor blocks
Operating Temp.	• 0°C ~ +50°C	• All

FCC REGISTRATION INFORMATION

■ FCC REQUIREMENTS PART 15

Caution: Any changes or modifications in construction of this device which are not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

NOTE: This device complies with **Part 15 of the FCC Rules**.

Operation is subject to the following two conditions;

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.