**1. Input Mode**

A. Overview

* + - * 1. You can input braille, letters (printed text), numbers, and symbols.

\* In Arabic, a separate operation is required on your smartphone for keyboard synchronization.

Setting→ general management→ Language and input → Physical keyboard → Samsung keyboard-Arabic → Arabic Android keyboard

\* Setting → genertal management → Language and input → speech- text to speech options → Preferred TTS engines – Google Text to speech engine → google text to speech engine setting → language : arabic / install voice data – install arabic

* + - * 1. If the letters you typed by using SMARTIO are not inputted in your smartphone properly, pressing **L2 key + Mode button** for more than 3 seconds to synchronize the language settings of your smartphone and SMARTIO.
				2. Press Mode button to toggle between Navigation Mode and Input Mode.

B. Braille Mode

1. How to Hold SMARTIO

You should hold SMARTIO facing the back of your keypad and Volume down button will be right on the top of the device.

1. Braille keys
* N3 : Dot 1 (left index finger)
* N6 : Dot 2 (left middle finger)
* N9 : Dot 3 (left ring finger)
* N1 : Dot 4 (right index finger)
* N4 : Dot 5 (right middle finger)
* N7 : Dot 6 (right ring finger)

3. Function keys

* L1 : Esc key
* L2 : Language Selection key
* L3 : null
* L4 : Symbol input key
* R1 : Backspace key
* R2 : Space key
* R3 : Enter key
* R4 : null
* N2 : Left arrow key
* N5 : Right arrow key
* N8 : Up arrow key
* N10 : Space key
* N11 : Down arrow key
* N12 : Backspace key

4. Braille Mode: Type braille by using six fingers in the same way you do with the Perkins braille notetaker.

Switching languages: If you press L2 key, Arabic is toggled with English and selected.

Symbol Input: Press L4 key to switch to Symbol Mode and type in symbols.

Returning to Braille Mode: Press L4 key again to switch from Symbol Mode to Braille Mode.

5. Editing Braille Text

* Go forward one character. : R1+N5
* Go back one character : R1+N2
* Go forward one word : R2+N5
* Go back one word : R2+N2

C. Typing for printed text

1. How to Hold SMARTIO

Hold SMARTIO facing the keypad and Volume down button will be left on the top of the device..

2. The Key Arrangement for Print Mode

Function keys

* L1 : Esc key
* L2 : Language selection key
* L3 : Number/symbol selection key
* L4 : Shift key
* R1 : Backspace key
* R2 : Space key
* R3 : Enter key
* R4 : null

Key arrangement for each language

Arabic: Keys for Arabic are arranged based on the FAST Arabic System. You can combine Arabic using N1 key to N3 key, and two Arabic consonants are allocated in each keypad from N4 key to N12 key from right to left.

* N1 : Nocta below (Reserved name by FAST System)
* N2 : Triple Nocta up (Reserved name by FAST System)
* N3 : Nocta up (Reserved name by FAST System)
* N4 : Dal, Ra
* N5 : Ta, Ha
* N6 : Alif, Hamzah
* N7 : Fa, Kaf
* N8 : Ta, Ayn
* N9 : Sin, Sad
* N10 : Waw, Alif maqsorah
* N11 : Nun, Ha
* N12 : Lam, Mim

English: The arrangement is the same as the T9 keypad.

* N1 : null
* N2 : a, b, c
* N3 : d, e, f
* N4 : g, h, i
* N5 : j, k, l
* N6 : m, n, o
* N7 : p, q, r, s
* N8 : t, u, v
* N9 : w, x, y, z
* N10 : Asterisk ( **\*** ), comma ( **,** ) Press L4+N10 for a comma.
* N11 : At sign ( **@** )
* N12 : Pound sign ( **#** ), period ( . ) Press L4+N12 for a period.

3. How to type alphabet for each language

i. Arabic: MoreDream’s FAST System keyboard was used.

* Alif ( ا ) : N6
* Ba ( ب ) : N5,N1
* Ta ( ت ) : N5
* Tha ( ث ) : N5,N2
* jim ( ج ) : N5,N5,N1
* Ha ( ح ) : N5,N5
* Kha ( خ ) : N5,N5,N3
* Dal ( د ) : N4
* Dhal ( ذ ) : N4,N3
* Ra ( ر ) : N4,N4
* Zay ( ز ) : N4,N4,N3
* Sin ( س ) : N9
* Shin ( ش ) : N9,N2
* Sad ( ص ) : N9,N9
* Dad ( ض ) : N9,N9,N3
* Ta ( ط ) : N8
* Za ( ظ ) : N8,N3
* Ayn ( ع ) : N8,N8
* Ghayn ( غ ) : N8,N8,N3
* Fa ( ف ) : N7
* Qaf ( ق ) : N7,N3
* Kaf ( ك ) : N7,N7
* Lam ( ل ) : N12
* Mim ( م ) : N12,N12
* Nun ( ن ) : N11
* Ha ( ه ) : N11, N11
* Waw ( و ) : N10
* Ya ( ي ) : N10,N10,N1
* Hamzah ( ء ) : N6,N6
* Alif hamzah olwyah ( أ ) : N6,N3
* Alif hamzah soflyah ( إ ) : N6,N1
* Alif madah ( آ ) : N6,N3,N3
* Tamarbuta ( ة ) : N11,N11,N3
* Alif maqsorah ( ى ) : N10,N10
* Ya hamzah ( ئ ) : N10,N10,N3
* Waw hamzah ( ؤ ) : N10,N3

ii. English: Press L4 key(Shift) for capital letters.

* a : N2
* b : N2, N2
* c : N2, N2, N2
* d : N3
* e : N3, N3
* f : N3, N3, N3
* g : N4
* h : N4, N4
* I : N4, N4, N4
* J : N5
* k : N5, N5
* l : N5, N5, N5
* m : N6
* n : N6, N6
* o : N6, N6, N6
* p : N7
* q : N7, N7
* r : N7, N7, N7
* s : N7, N7, N7, N7
* t : N8
* u : N8, N8
* v : N8, N8, N8
* w : N9
* x : N9, N9
* y : N9, N9, N9
* z : N9, N9, N9, N9

4. Editing Text: Compatible with TalkBack text editing.

* Go to the next word : R1+N6
* Go to the previous word : R1+N4
* Go to the next character : R2+N6
* Go to the previous character : R2+N4

D. Number and Symbol Input

1. Number and Symbol Input

Press L3 key to toggle between number and symbol.

Press L1 key to return to the language input mode.

Number Input: The number and symbol keys are assigned as the same as in the QWERTY keyboard. To type a symbol on the right of a key, press L4 key (Shift) and then the keys you want accordingly.

* N1 : 1, exclamation mark ( **!** )
* N2 : 2, At sign ( **@** )
* N3 : 3, pound sign ( **#** )
* N4 : 4, dollar sign ( **$** )
* N5 : 5, percent sign ( **%** )
* N6 : 6, caret ( **^** )
* N7 : 7, ampersand ( **&** )
* N8 : 8, asterisk ( **\*** )
* N9 : 9, left parenthesis ( **(** )
* N10 : Asterisk ( \* ), underscore ( **\_** )
* N11 : 0, right parenthesis ( **)** )
* N12 : Pound sign ( # ), plus sign ( **+** )

Symbol Input: You can type additional symbols assigned in the QWERTY keyboard except the number keys. To type a symbol on the right of a key, press L4 key (Shift) and the keys you want accordingly.

* N1 : Tilde (**~**), null
* N2 : Minus sign ( **-** ), underscore ( **\_** )
* N3 : Equals sign ( **=** ), plus sign ( **+** )
* N4 : Left bracket ( **[** ], Left brace { **{** }
* N5 : Right bracket ( **]** ), Right brace ( **}** )
* N6 : Backlash ( **＼** ), vertical bar ( **|** )
* N7 : null
* N8 : Semicolon ( **؛** ), colon ( **:** )
* N9 : Apostrophe (**‘** ), quotation mark ( **“** )
* N10 : Comma ( ،), less than sign ( **<** )
* N11 : Period ( **.** ), greater than ( **>** )
* N12 : Slash ( **/** ), question mark ( **؟** )

**2. Navigation Mode**

A. How to Hold SMARTIO: Hold the SMARTIO facing the keypad with the Power button the on the bottom of the device.

* + - 1. Your SMARTIO and smartphone (keyboard) should be synchronized in English.
			2. Navigation Mode Command: Compatible with TalkBack of Android.
* Navigate to the next item : L3+N6
* Navigate to the previous item : L3+N4
* Navigate to the item above : L3+N2
* Navigate to the item below : L3+N5
* Navigate to the first item : L3+L2+N4
* Navigate to the last item : L3+L2+N6
* Navigate to the next window : L3+L2+N5
* Navigate to the previous window : L3+L2+N2
* Click the focused element : L3+R3
* Touch and hold the focused element : L3+L4+R3
* Read from top : L3+L2+R3
* Read from next item : L1+R3
* Back : L3+R1
* Home : L3+L2+N8
* Recent apps : L3+L2+N1
* Notifications : L3+L2+N11
* Search the screen : L3+L2+N12
* Pause or resume TalkBack : L3+L2+N10
* Open list of actions : L3+L2+R2
* Show installed languages : L3+L2+N9

**3. Browser Mode**

A. Overview

You can press and hold N12 key more than 3 seconds in Navigation Mode to switch to Browser Mode. Then, use the command below for Google Chrome Browser.

\* Your SMARTIO and smartphone (keyboard) should be synchronized in English.

* Navigate to next item : L3+N6
* Naviagate to previous item : L3+N4
* Navigate to above item : L3+N2
* Navigate to below item : L3+N5
* Preform click : L3+R3
* Navigate to the next button : N1
* Navigate to the previous button : L4+N1
* Navigate to Next Control : N2
* Navigate to Previous Control : L4+N2
* Next ARIA landmark : N3
* Previous ARIA landmark : L4+N3
* Next Editable field : N4
* Previous Editable field : L4+N4
* Next Focusable item : N5
* Previous Focusable item : L4+N5
* Next Graphic : N6
* Previous Graphic : L4+N6
* Next Heading : N7
* Previous Heading : L4+N7
* Next Heading level 1 : L1
* Previous Heading level 1 : L4+L1
* Next Heading level 2 : L2
* Previous Heading level 2 : L4+L2
* Next Heading level 3 : L3
* Previous Heading level 3 : L4+L3
* Next Heading level 4 : R1
* Previous Heading level 4 : L4+R1
* Next Heading level 5 : R2
* Previous Heading level 5 : L4+R2
* Next Heading level 6 : R3
* Previous Heading level 6 : L4+R3
* Next List : N10
* Previous List : L4+N10
* Next Link : N9
* Previous Link : L4+N9
* Next List item : N8
* Previous List item : L4+N8
* Next Table : N11
* Previous Table : L4+N11
* Next Checkbox : N12
* Previous Checkbox : L4+N12
* Next Combo box : R4
* Previous Combo box : L4+R4