

# MyScript Builder EE

**MyScript Builder Embedded Edition (EE) is a Software Development Kit (SDK)** designed for integration of powerful handwriting recognition technology into **embedded devices** whether they are running on **Android, Embedded Linux, Symbian or Windows Mobile** operating systems!

MyScript Builder Embedded is based on MyScript technology that reliably recognizes handwriting in **87 different languages!**

## BENEFITS

### + Easy integration in mobile devices

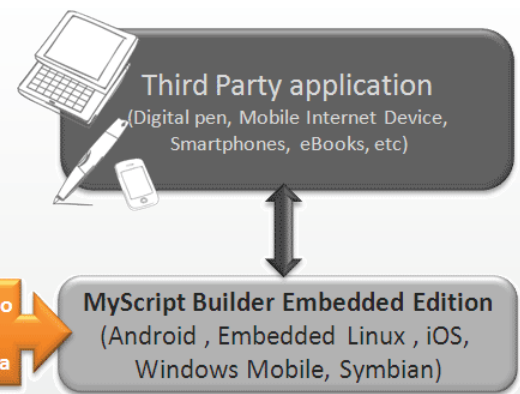
Thanks to the specific tools and resources included in MyScript Builder Embedded, the SDK can be integrated in any solution with reduced system resources, regardless of the operating system.

### + Real time recognition

MyScript recognizes handwritten information in **real time**, improving user experience and interactivity with mobile devices. This is ideal for mobile handsets or games for instance.

### + Comfort & ease of use

MyScript technology gives end-users the comfort of entering text in natural handwriting through an intuitive user interface, without changing their writing habits.



### + Time saving & cost efficient

MyScript offers a time saving and cost efficient solution to applications requiring pen-based text entry.

### + Customization

In addition to our standard offering for embedded platforms, our engineers can adapt MyScript technology to your proprietary system requirements.

## FEATURES

### ✓ Language model

MyScript Builder Embedded can be delivered with **language models** which supply "linguistic intelligence" to the recognition engine. They describe statistically how common language is formed and the probability of written words to occur together.

### ✓ Different handwriting styles

MyScript Technology reliably recognizes:

I	S	O	L	A	T	E	D	C	H	A	R	A	C	T	E	R	S
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Handprinted characters

*Cursive handwriting*

### ✓ Gestures

MyScript Builder Embedded supports gestures to insert spaces or a line break or delete characters.

### ✓ Confidence Scores

MyScript provides confidence scores for each recognition result and a list of alternative results.

# SYSTEM OPTIMIZATION

## Input sources

MyScript accepts handwritten input from any pen-based user interface. The minimum input requirements for MyScript Builder Embedded are 100 dpi at a frequency of 50 Hz.

## Code modularity

To ensure minimal memory usage in your solution, MyScript Builder Embedded is organized in several independent code modules.

## Memory pool management

In order to gain in efficiency you can assign a certain amount of memory for running the application.

## Resource management

Resources can be based in ROM and used in-place, to avoid duplicating resources in the program memory (RAM).

## Adapted lexicons

You can choose different sizes and types of lexicons. Depending on your storage and technical requirements, pre-defined text lexicons containing the most frequently used words can be delivered.

# TECHNICAL SPECIFICATIONS

## Language Packs

MyScript Builder Embedded supports all the MyScript Letra and MyScript Lingo language packs. For more details, please refer to the MyScript Lingo and Letra datasheet.

## SDK contents

**APIs:** C and Java (code examples are included)

### Operating systems:

- **Android** SDK 1.5 R1 and later— Processor type: ARMv5
- **iOS:** 3.1/ 3.2
- **Linux Embedded**—Processor type: i686/ARM
- **Symbian** Series 9.x and later—Processor type: ARMv5/WIN-SCW
- **Windows CE:**
  - PocketPC 2003 - Processor type: ARMV4/emulator
  - Windows Mobile 5.0, 6.0, 6.5
  - Processor type: ARMV4I/ emulator

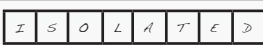
MyScript Builder Embedded Edition can be ported on other operating systems on demand.

### Input Method demo:

The input method demo is a standalone application, easy to build, deploy and debug. You can use it on multiple mobile platforms and edit the configuration, to demonstrate different languages and writing styles.



## Resources\*

RAM:

Type of handwriting	Western	Asian
	32Kb	32Kb
Handprinted	32Kb	64Kb
<i>Cursive</i>	256Kb	NA

Code: 370Kb

### Alphabets delivered with MyScript Letra and MyScript Lingo:

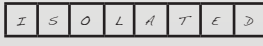
	Arabic/ Cyrillic/ Greek/ Hebrew/ Latin	100 - 400 Kb
	Chinese/ Japanese/ Korean/ Devanagari/ Thai/ Tamil	500 - 3300 Kb
	Cyrillic / Latin	75 - 300 Kb
	Asian	1 - 4 Mb

### Lexicons delivered with MyScript Lingo:

From 30,000 to 100,000 words: 175 - 1000 Kb

## Performances

These performances\*\* have been measured in a free text field, as you would use when taking notes, using the most powerful handwriting understanding tools (MyScript Lingo Language Packs).

Type of handwriting	Western	Asian
	26 char/ s.	6 char/ s.
Handprinted	8 char/ s.	10 char/ s.

\* Resource size can be adapted according to the supported features, platforms and level of accuracy required - \*\* CPU: 100 MIPS; Cache: 32Kb