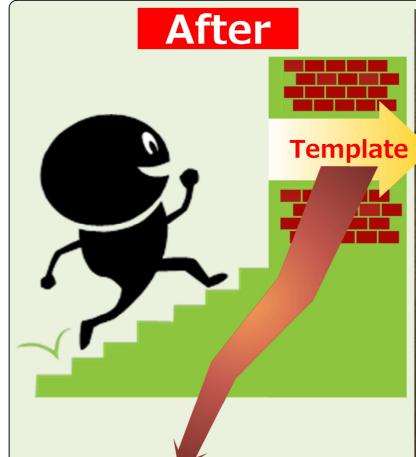


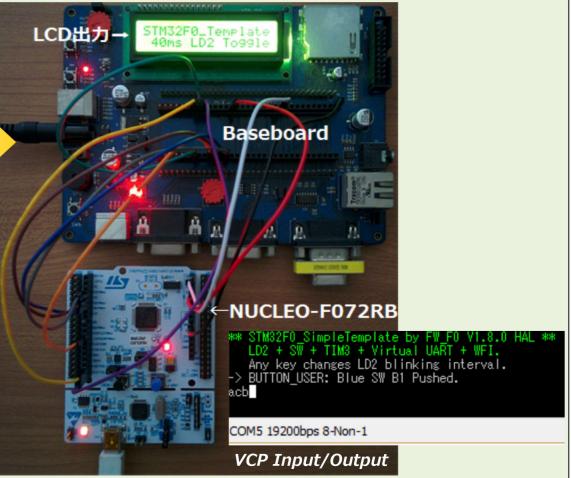
- Sample code cannot be used in practice.
- Need a simple, highly scalable development environment.

Template Benefits

- Easy to learn STM32F0/F1.
- Immediate program directly connected to practical work.
- Easy STM32Fx application development using sample code.
- * Easy to use/divert multiple sample codes



- Easy to use and reusable sample code direct practice template.
- Low cost, easy and highly expandable development environment.
- Anyone can easily pass through Barrier.



Baseboard operation



STM32Fx Template



STM32CubeMX generated HAL APIs

STM32F1/F0

Baseboard connection 6 Changelog & References 7

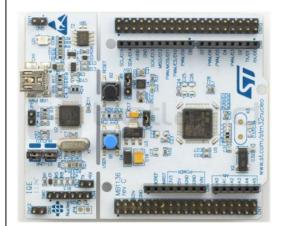
Features of STM32Fx Template

- •Time-division multitasking startup
 Startup timing: 1ms/4ms/40ms/500ms/1s (Timing can be changed easily)
- Low power consumption: Sleep startup when no processing
- •Template using STM32CubeMX generated HAL API.
- •The template code easy to change when MCU performance is insufficient, and ideal for prototype development.
- •Simple template and baseboard template attached to template application examples.
- Easy to add/remove functions to/from both application examples.
- •Easy to learn STM32F0/1 with abundant sources with Japanese comments and this materials
- Early application development and evaluation possible with templates directly connected to practical work

Template specification		
Overview	Simple template: STM32F072RB or STM32F103RB standalone operation •Green LED output: 40ms/500ms/1s flashing (cycle change by blue SW push or console key input) •Blue SW input: SW push notification via Virtual COM Port (anti-chattering by software) •VCP input/output: Console initial message output, key input changes green LED blinking cycle Baseboard template: Works with STM32F072RB/STM32F103RB + Baseboard. In addition to simple template operation, in parallel, •Baseboard potentiometer ADC value output •Watch dog timer (IWDG) expiry operation test by pushing Baseboard EXT_SW (SW6).	
Software	STM32CubeIDE v1.3.1, STM32CubeMX v5.6.1、FW_F0 v.110, FW_F1 v1.8.0	
Hardware	Evaluation Board : STM32F072RB (NUCLEO-F072RB, Cortex-M0) STM32F103RB (NUCLEO-F103RB, Cortex-M3) Function addition Baseboard : mbed-Xpresso Baseboard	

Template price & copyright

US\$10 (tax inclued)
Copyright belongs to purchaser

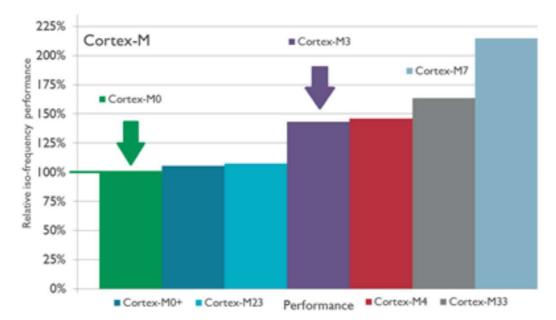


STM32F072RB ARM Cortex-M0、48MHz ROM 128KB、RAM 16KB



STM32F103RB ARM Cortex-M3、64(72)MHz ROM 128KB、RAM 20KB

↑ Each board pins are compatible ↑



Cortex-M0 and Cortex-M3 performance ratio

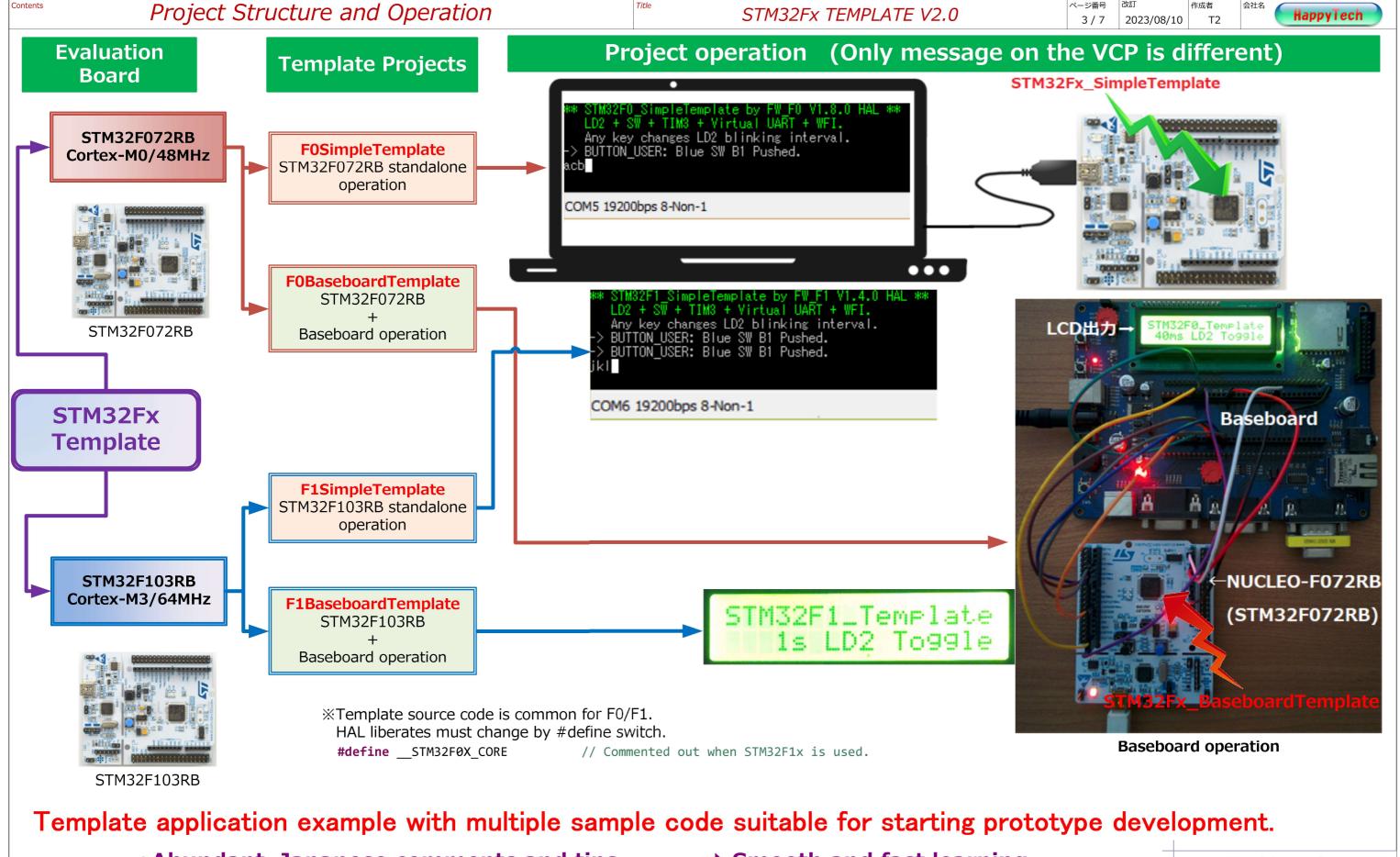
Notes

Although this information and template software were created accurately and carefully, we do not guarantee that there are no Errors
 In the unlikely event that the customer suffers damages due to incorrect information or template software, we will not be held responsible for it.



Baseboard ↑ mbed-Xpresso baseboard

Template overview 1
Template spec. 2
Projects structure 3
How Template Work 4
Multitasking 5
Baseboard connection 6
Changelog & References 7



- Abundant Japanese comments and tips
- 4 projects for 2 evaluation boards
- Template example developed with HAL API
- **→** Smooth and fast learning
- **⇒** Easy to start prototyping
- **⇒** Easy to use other STM32 MCU

emplate overview	1
emplate spec.	2
rojects structure	3
ow Template Work	4
ultitasking	5
aseboard connection	6
hangelog & References	7
	emplate spec. rojects structure ow Template Work ultitasking aseboard connection