Cortex-M Internal flash programmer
FP-10

Computex®

One-push operation!

Ideal for mass production sites!

Cortex-M Internal flash memory

Easy target connection!

One touch connection using the standard connector. Space saving connection with custom connection - minimum of 2 pins (*)

* : In case of SWD interface (excluding GND and power supply)
* : Depends on the CPU

Straightforward result notification!

Write result notification using 2 color LED(OK/NG) and buzzer - simple and uncomplicated.
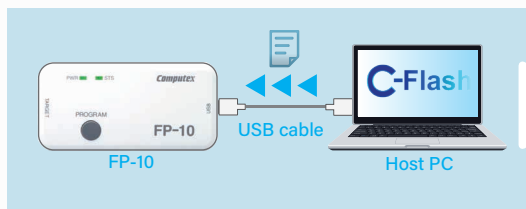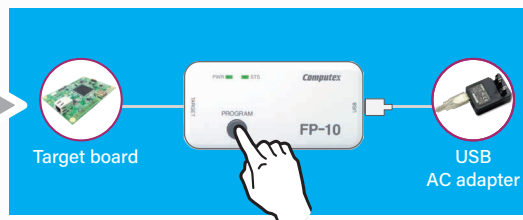
Supply power to the target!

model PS

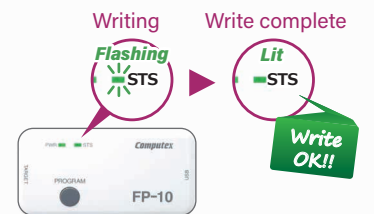Eliminate the need for a separate target power supply, supply power directly from FP-10.

POWER

Versatile for Cortex-M core!

Supports writing over 2,500 Cortex-M series core CPU internal flash memory!

Set Protect/security easily!

Easy processing of Protect/security of internal flash memory after write

Dual Interface type support!

Use JTAG or SWD interface to connect the target.

Ultra fast write support!

Write to 512KB Flash memory in under few seconds at Ultra high speeds.

(Note: Write speed varies depending on CPU)

Easy to prepare! Easy to write!

C-Flash

USB cable

FP-10

Host PC

Target board

USB AC adapter

Writing
Flashing STS

Write complete
Lit STS

Write OK!!

Download write data from host PC to FP-10

Connect FP-10 to the target board and press the PROGRAM button.

Result will be reported by the 2 color LED and the buzzer.

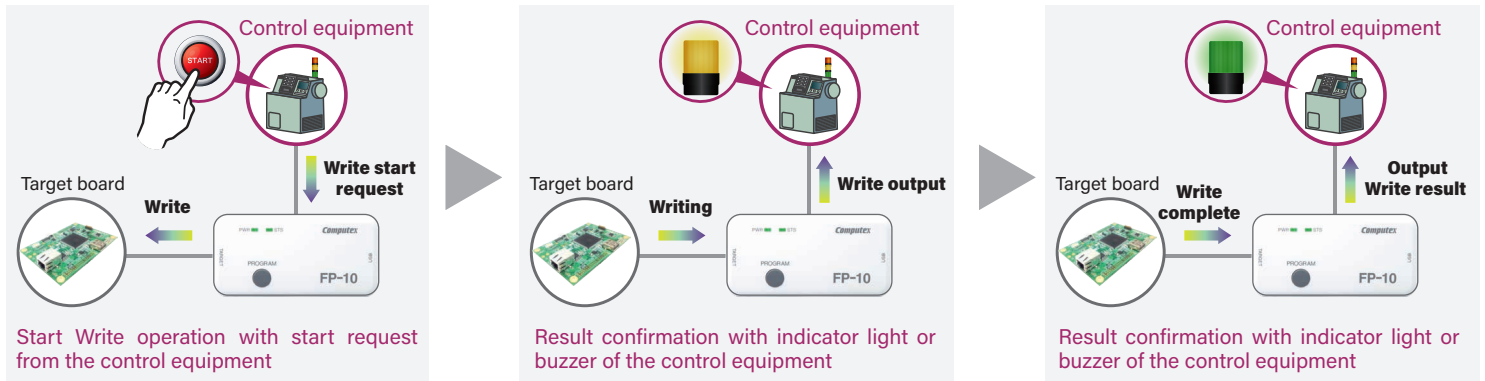# Target power supply function (improve efficiency by reducing target settting up time)

Connection
Power can be supplied from FP-10 elmiating the need for external power supply to the target
(Voltage: 3.3V or 5V, Max 200mA)

Target board

PWR STS Computex
TARGET PROGRAM FP-10 USB

USB AC adapter

No need for Power supply!!

Push button!

PWR STS Computex
TARGET PROGRAM FP-10 USB
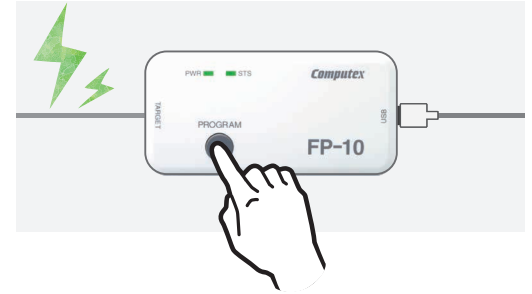
Control FP-10 from an external control equipment

Control equipment

START

Target board

Write

PWR STS Computex
PROGRAM FP-10

Write start request

Start Write operation with start request from the control equipment

Control equipment

Target board

Writing

PWR STS Computex
PROGRAM FP-10

Write output

Result confirmation with indicator light or buzzer of the control equipment

Control equipment

Target board

Write complete

PWR STS Computex
PROGRAM FP-10

Output Write result

Result confirmation with indicator light or buzzer of the control equipment

■Main Specification

Supported manufacturers (As of 2018/6)	・Silicon Laboratories ・Toshiba ・Cypress Semiconductor ・STMicroelectronics ・LAPIS Semiconductor ・Infineon Technologies ・Texas Instruments ・Renesas Electronics ・NXP Semiconductors For more information refer to our website. Please contact our sales department for queries about any CPUs.
Target board interface	JTAG/SWD (1.65V～5.5V)
External dimensions	102mm(W)×49mm(D)×22mm(H)
Target power supply	3.3V or 5.0V (± 5%), Max 200mA (with overcurrent protection circuit) *model PS*
Control equipment terminals	・Write start (input to FP-10) ・Write progress (output from FP-10) ・Result (output from FP-10)
FP-10 power supply	5V DC, 250 mA. (Supplied with AC adapter or USB connector)
Package contents	FP-10 unit, AC adapter, USB cable for PC, C-Flash software CD

■Specification of C-Flash (the included software)

Operations	Write, Erase check, Checksum, Read, Cancel protect/security before write, set protect/security after write, support for operation on multiple areas of internal flash memory (depending on the CPU)
Supported file formats	Binary, Motorola S, Intel Hx, ELF/DWARF2
TCP/IP control functions	Control C-Flash by issuing commands (Eg: Write) from external programs using TCP/IP
Using multiple FP-10 units	Max 10 units can be connected to a host PC
Operating environment	Windows 7 / Windows 8 / Windows 10 Host PC with USB
User support	Free C-Flash functionality and feature updates * Note: To add new CPUs, license needs to be purchased separately.
Command prompt version	Change Write address and data using the command prompt version

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