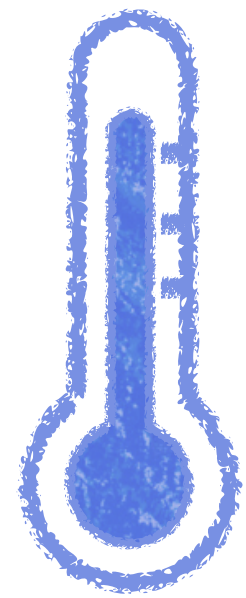


24-bit ADC Flash MCU

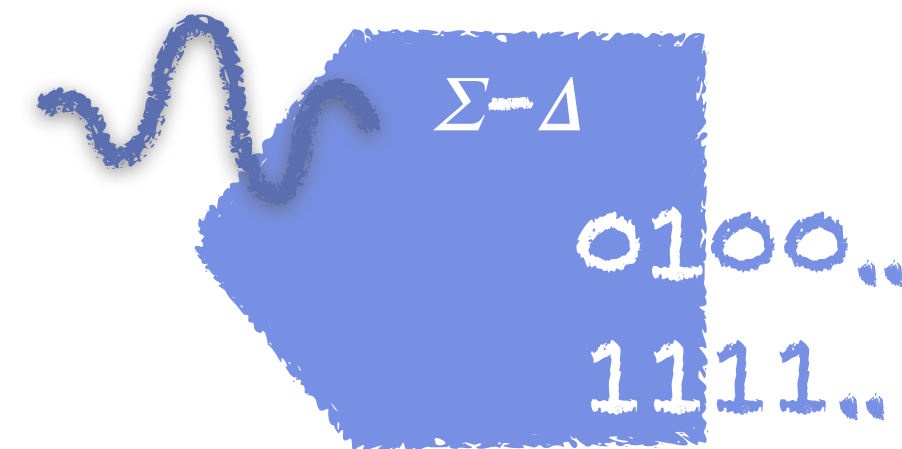
► BH66F2742



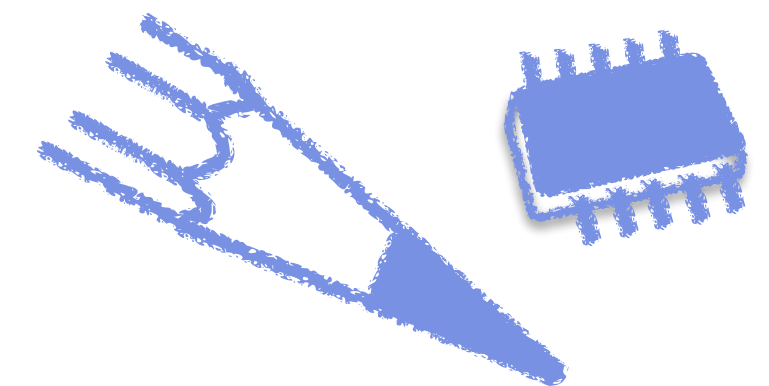
High Accuracy
Temperature Sensor

$\pm 0.2^{\circ}\text{C}$ @ $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

$\pm 0.1^{\circ}\text{C}$ @ $32^{\circ}\text{C} \sim 42^{\circ}\text{C}$



24-bit × 2ch ADC



Small Package

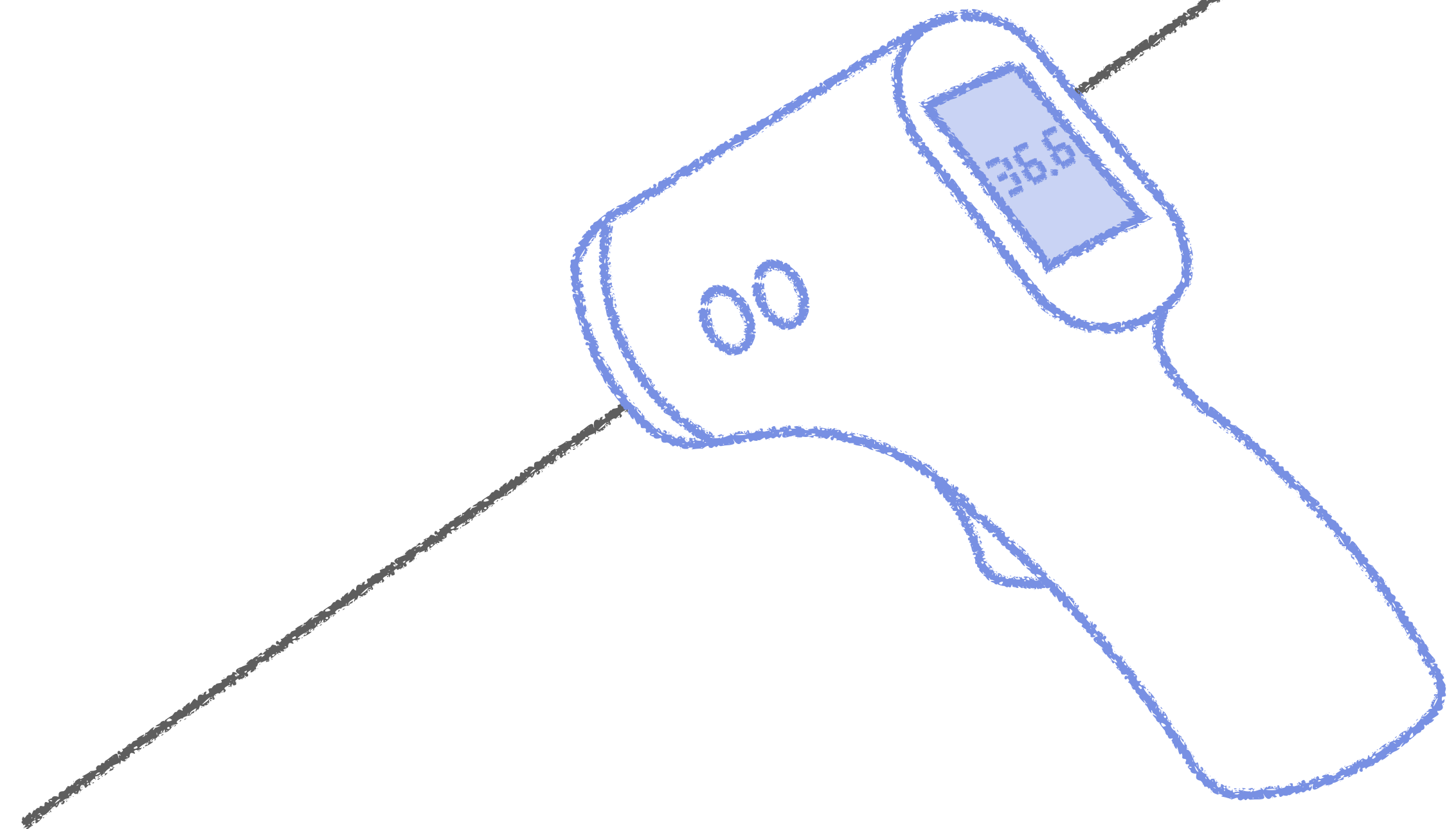
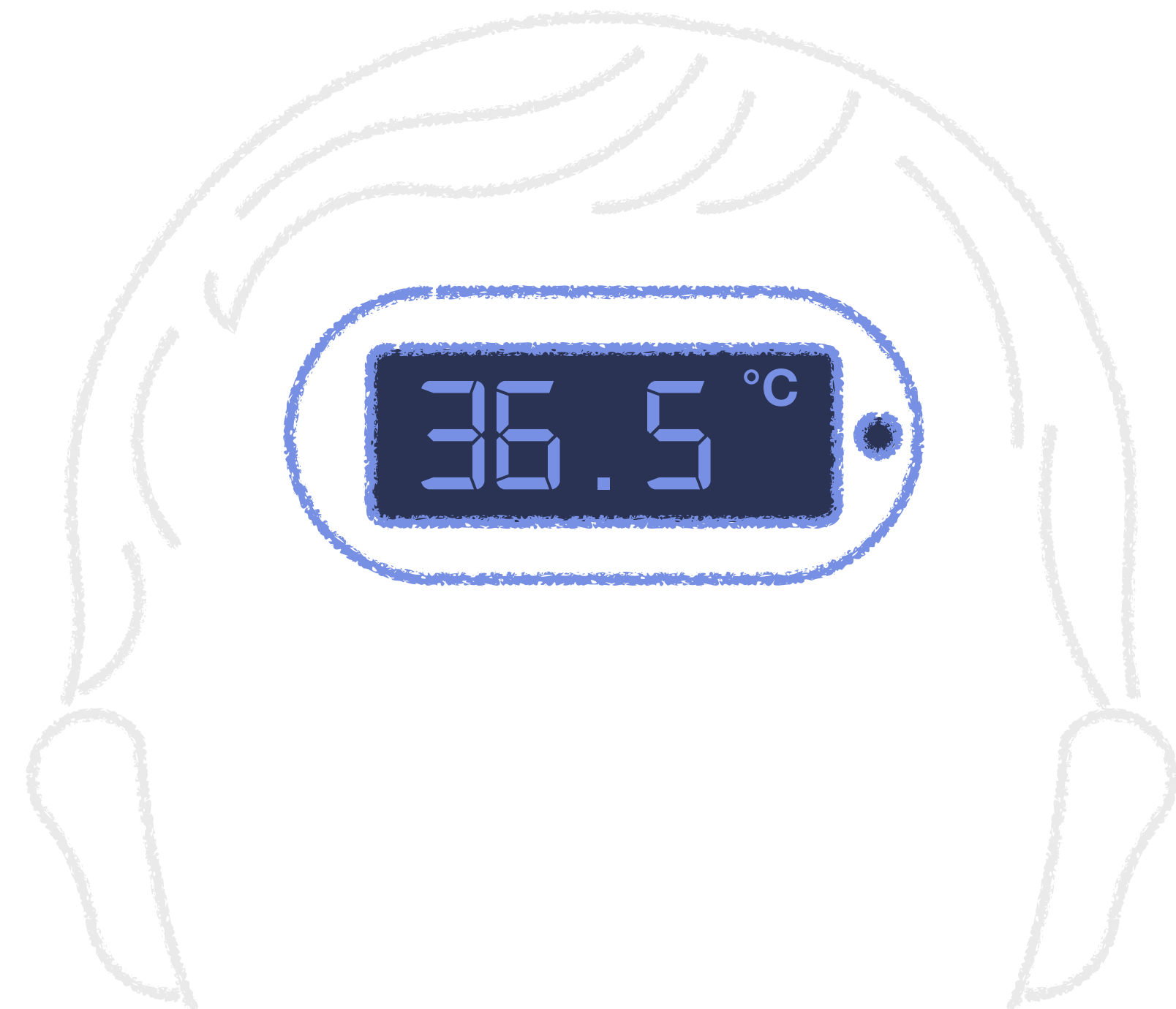
16SSOP/24QFN

24-bit ADC Flash MCU

▶ BH66F2742



SPI/I²C/UART | LDO | OPA



Applicable to small infrared thermometers
and high-precision environmental
temperature measurement products

Applications

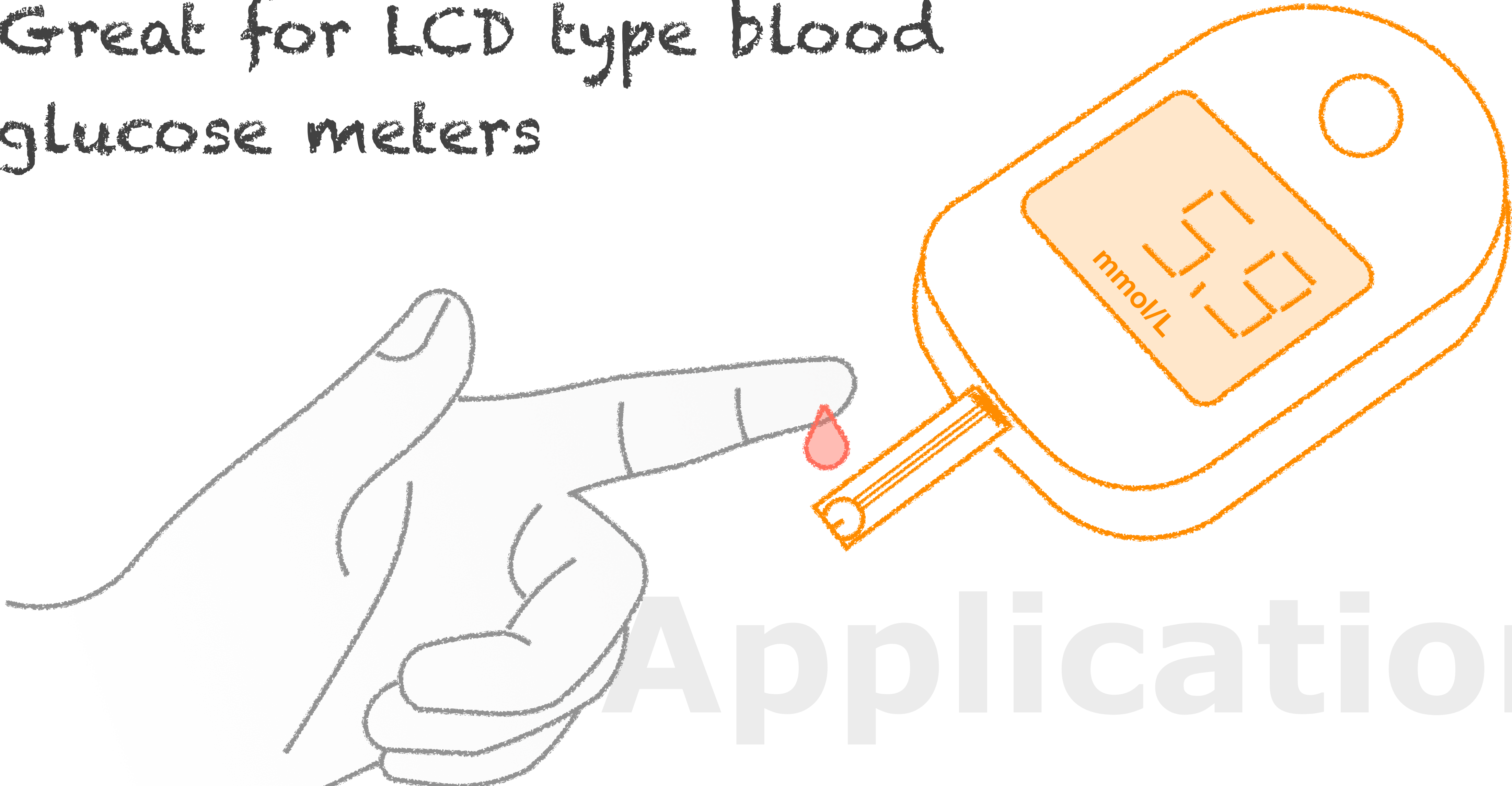
BH66F2742

New ATS 24-Bit A/D Flash MCU													
Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	Stack	I/O	Timer	ADC	Temperature Sensor	OPA	Interface	Package
BH66F2742	8MHz	2.2V~5.5V	4K×16	256×8	32×8	6	4	10-bit CTM×1	24-bit ×2	±0.2°C	1	SPI/I ² C/UART×1	16SSOP 24QFN
BH66F5255*	12MHz	2.2V~5.5V	8K×16	512×8	512×8	8	9	10-bit CTM×1 10-bit PTM×1	24-bit ×4	±0.2°C	2	SPI/I ² C×1 UART×1	24QFN 24SSOP

* Under development, available in 2Q, 2022.

Your best choice

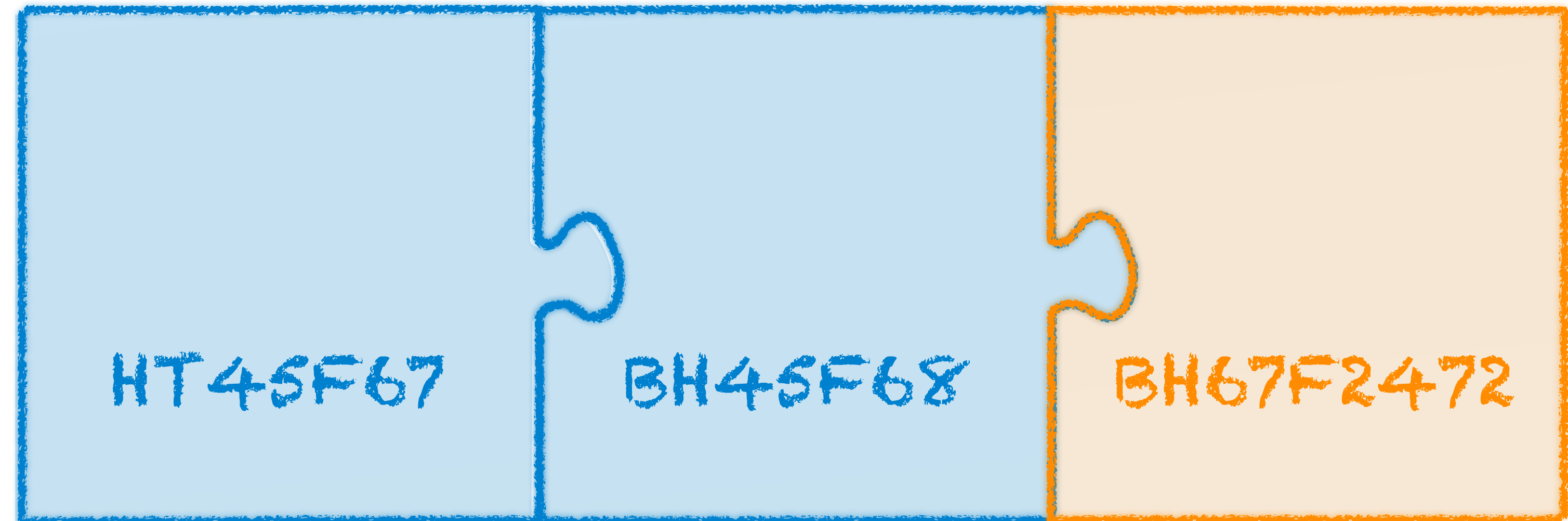
Great for LCD type blood
glucose meters



Applications

Blood Glucose Meter

MCU Series



Evolution

BH45F68

vs

BH67F2472

1KB



RAM



2KB

64B



EEPROM

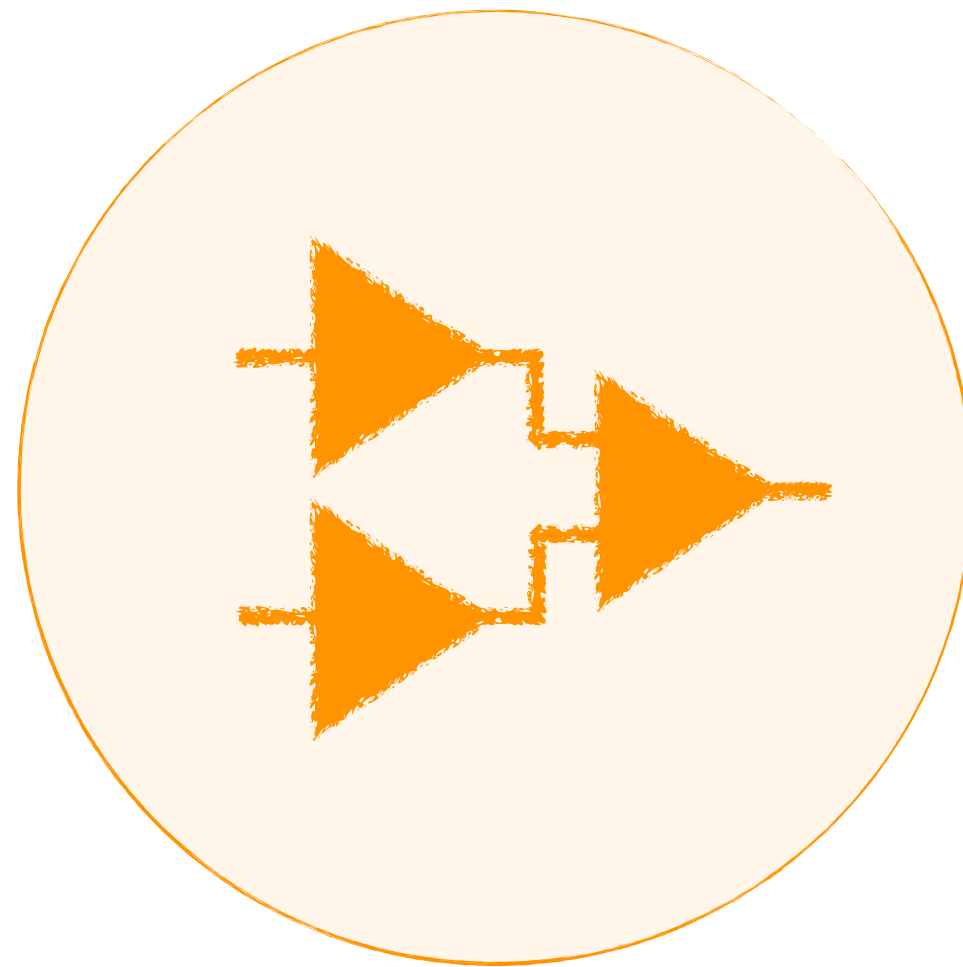


2KB

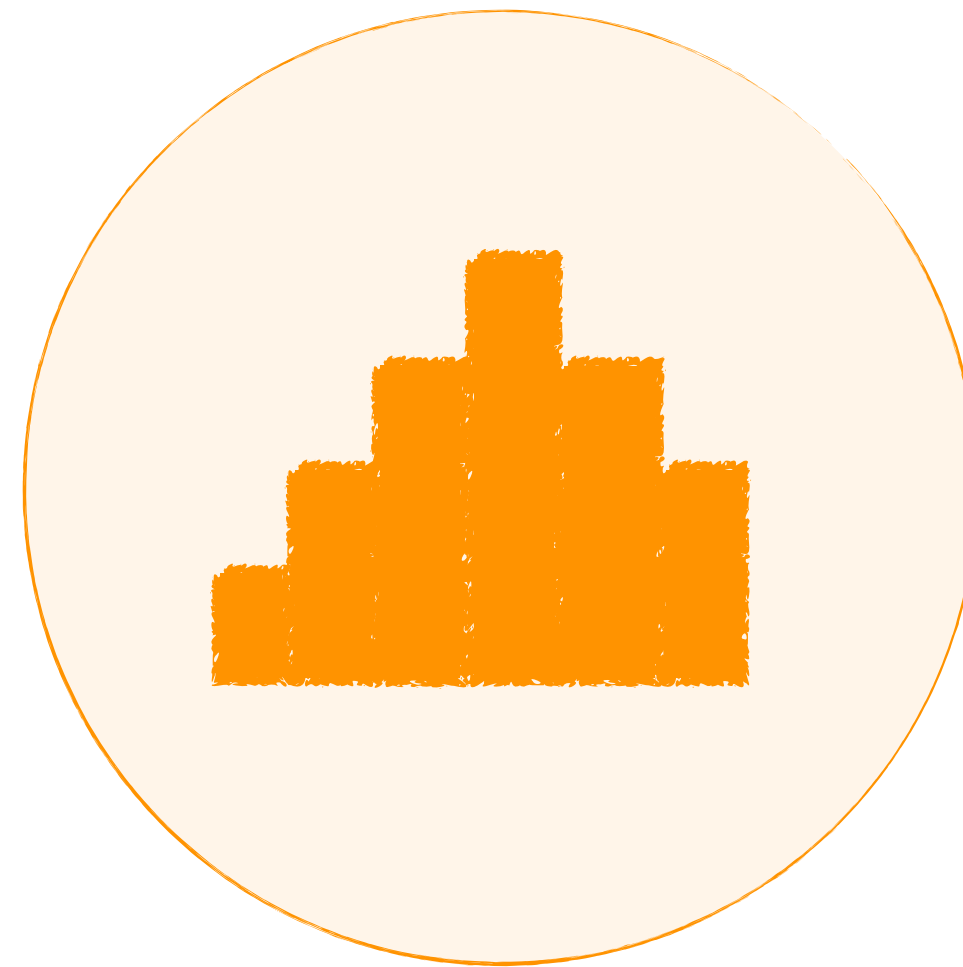
Comparison

Blood Glucose Meter ASSP MCU

► BH67F2472

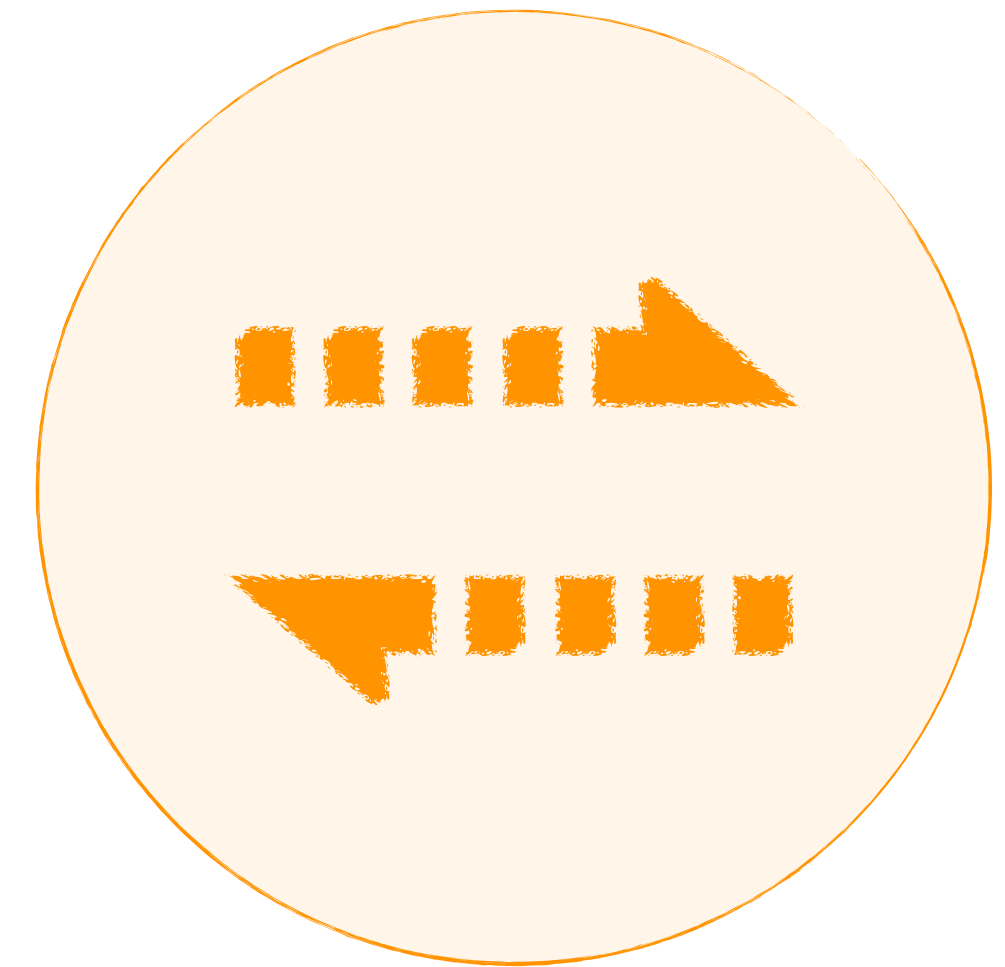


Glucose
Sensor AFE



LCD Driver

32 x 8 (Max.)



Interface

UART/SPI/I²C

BH67F2472

ROM | **RAM** | **EEPROM**
32KW | 2KB | 2KB

IAP | **RTC** | **OPA × 2**

12-bit × 6ch ADC | **12-bit × 1ch DAC**



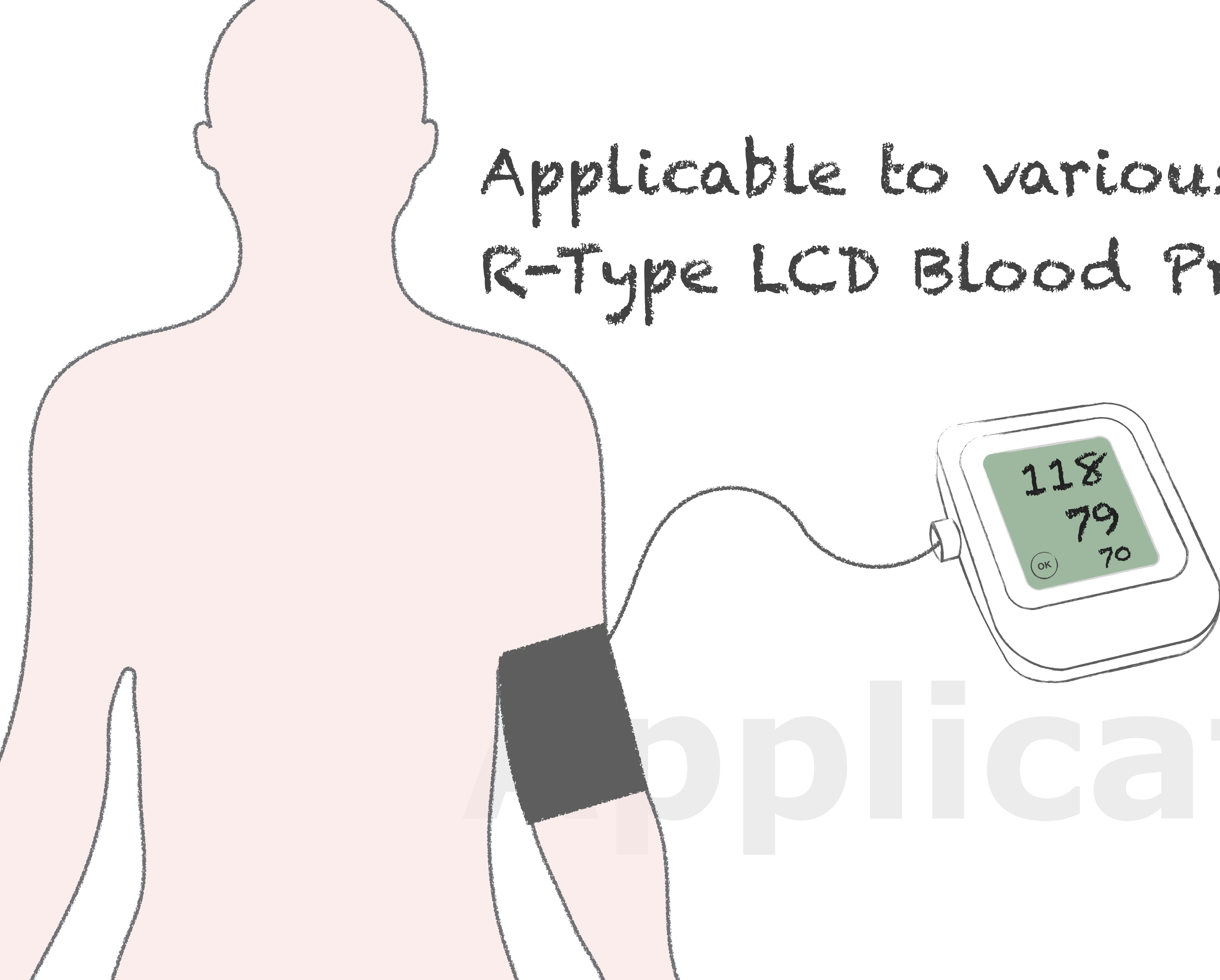
BH67F2472

Glucose Meter Flash MCU																		
Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	MDU#	Stack	IAP	I/O	Timer	ADC	LCD	RTC	OPA	DAC	Audio DAC	Interface	Package
HT45F67	16MHz	2.2V~5.5V	32K×16	512×8	—	—	12	√	59	10-bit CTM×2 16-bit STM×1 10-bit ETM×1	12-bit ×8	32×4 30×6	√	2	10-bit ×1	16-bit ×1	SPI/I ² C×1 SPIA×1 UART×1	64/80 LQFP
BH67F2470	16MHz	2.2V~5.5V	32K×16	768×8	64×8	16-bit	8	√	34	10-bit PTM×3 16-bit STM×1	12-bit ×4	48×4 46×6 44×8	√	1	10-bit ×1	—	SPI/I ² C×1 SPIA×1 UART×2	64/80 LQFP
New BH67F2472	16MHz	2.2V~5.5V	32K×16	2048×8	2048×8	—	16	√	58	10-bit PTM×2 16-bit STM×1 10-bit ATM×1	12-bit ×6	36×4 34×6 32×8	√	2	12-bit ×1	—	SPI/I ² C/ UART×2 SPI×1	64/80 LQFP
BH67F2480	16MHz	2.2V~5.5V	48K×16	1024×8	64×8	16-bit	12	√	46	10-bit PTM×3 16-bit STM×1	12-bit ×6	48×4 46×6 44×8	√	2	12-bit ×1	—	SPI/I ² C×1 SPIA×1 UART×2	80LQFP

Note: # MDU: Multiplier Divider Unit.

Your best choice

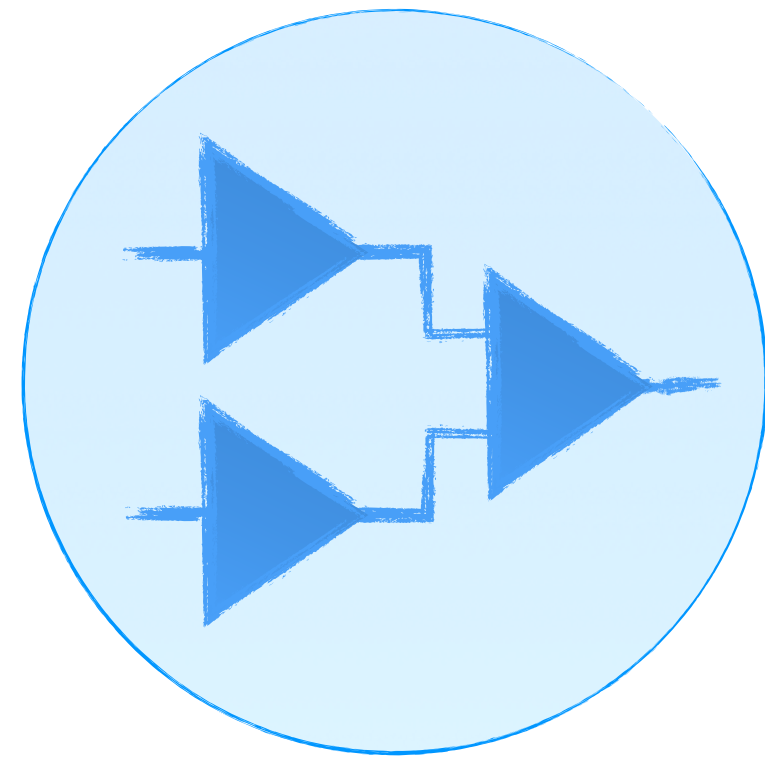
Applicable to various
R-Type LCD Blood Pressure Meters



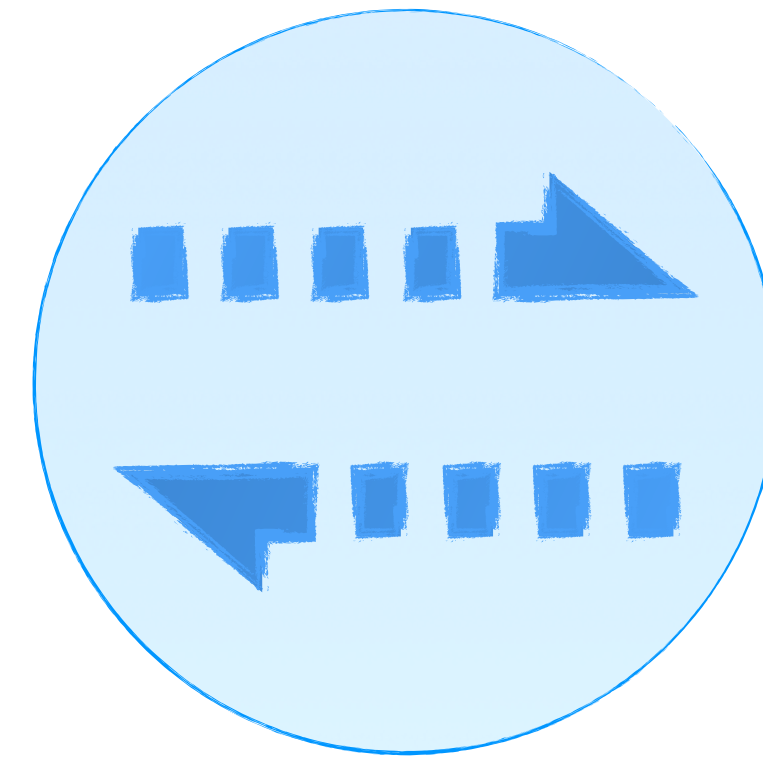
Applications

R-Type Blood Pressure Meter Flash MCU with LCD

▶ BH67F2265



Blood Pressure
Sensor AFE



Interface
UART/SPI/I²C

Evolution



BH67F2265

R-Type Blood Pressure Meter Flash MCU																		
Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	MDU [#]	Stack	IAP	I/O	Timer	ADC	LCD	RTC	PGA	Const. Current	Audio PWM	Interface	Package
BH67F2262	16MHz	2.2V~5.5V	16K×16	512×8	64×8	16-bit	8	√	52	10-bit PTM×3 16-bit STM×1	12-bit ×4	45×4 43×6 41×8	√	3	1	√	SPI/I ² C/ UART×1, SPIA×1	64/80LQFP
New BH67F2265	8MHz	2.2V~5.5V	16K×16	512×8	1024×8	—	12	√	30	10-bit CTM×2 16-bit STM×1	12-bit ×4	32×4 30×6	√	3	1	—	SPI/I ² C×1 UART×1	64LQFP
BH67F2270	16MHz	2.2V~5.5V	32K×16	1024×8	64×8	16-bit	8	√	43	10-bit PTM×3 16-bit STM×1	12-bit ×4	46×4 44×6 42×8	√	3	1	—	SPI/I ² C×1 SPIA×1 UART×2	64/80LQFP

Note: # MDU: Multiplier Divider Unit.
The BH67F2262 device uses the PWM function together with the external SPI flash to implement the voice playing function.

Your best choice