



EFM[®]32

the world's most energy friendly microcontrollers

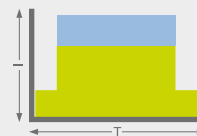
32-bit ARM Cortex-M0, Cortex-M3 and Cortex-M4F microcontrollers

- Energy, gas, water and smart metering
 - Alarm and security systems
 - Health and fitness applications
 - Industrial and home automation
 - Smart accessories
- energymicro.com/gecko

01

Very low active power consumption

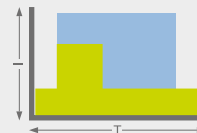
EFM32 Gecko technology enables active mode operation of only 150 $\mu\text{A}/\text{MHz}$ with a 3 volts power supply while running application code



02

Reduced processing time

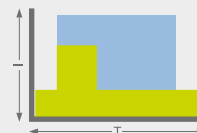
The low power, high performance 32-bit Cortex-M processors reduce the time spent in active mode



03

Very fast wake-up time

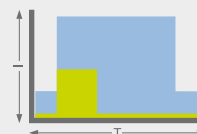
Short 2 μs wake-up time supports high efficiency energy modes and increases responsiveness



04

Ultra-low standby current

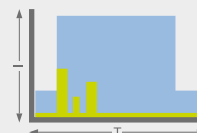
Full RAM and CPU retention + POR + BOD + RTC while using only 0.9 μA . Leopard and Giant Gecko includes RTC mode at only 0.4 μA



05

Autonomous peripheral operation

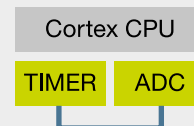
Applications can perform advanced tasks without using the Cortex CPU



06

PRS - Peripheral Reflex System

Predictable and fast signaling between peripherals without any CPU intervention



07

Well architected Energy Modes

Optimize your application with 5 flexible Energy Modes and sub μA operation



08

Extremely energy efficient peripherals

- ADC: 12-bit, 1 Msps at only 350 μA
- Analog Comparator: using as little as 100 nA
- LCD Controller: 8x36 segments at only 0.55 μA
- LEUART: Full UART @ 9600 bps using only 150 nA
- AES: 128/256-bit crypto-engine in only 54/75 cycles

09

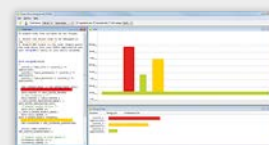
LESENSE - Low Energy Sensor Interface

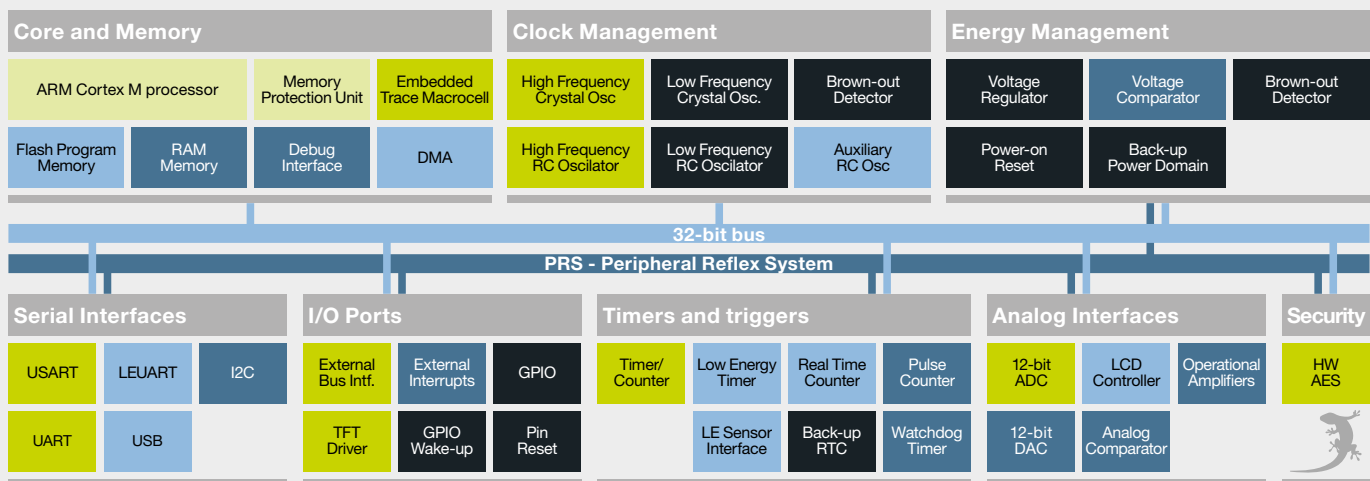
A configurable and energy efficient interface controlling up to 16 external analog sensors while the CPU is sleeping. At $\sim 1 \mu\text{A}$, LESENSE supports autonomous monitoring of virtually any type of analog sensor control scheme, including capacitive, inductive and resistive types.

10

Simplicity Studio and Advanced Energy Monitoring

The free Simplicity Studio provides one click access to all tools including energyAware Profiler and AEM data.





EFM32 with 3V power supply. Application from memory.	EM0 Run Mode	EM1 Sleep Mode	EM2 Deep Sleep	EM3 Stop Mode	EM4 Shutoff Mode
Current consumption	150 μ A/MHz	45 μ A/MHz	0.9 μ A	0.6 μ A	20 nA
Wake-up time	-	0	2 μ s	2 μ s	160 μ s
CPU (Cortex-M3/M0)	On	-	-	-	-
High frequency peripherals	Available	Available	-	-	-
Low frequency peripherals	Available	Available	Available	-	-
Asynchronous peripherals	Available	Available	Available	Available	-
Full CPU and SRAM retention	On	On	On	On	-
Power-on Reset/Brown-out Detector	On	On	On	On	On
Wake-up events	Any	Any	32 kHz peripherals	Async IRQ, I2C slave Analog Comparators Voltage Comparators	Reset, GPIO rising/ falling edge

- ZERO** 16 memory and feature versions (Available from: 2012)
ARM Cortex-M0 up to 32 MHz
Flash (KB): 4 to 32
RAM (KB): 2 to 4
- TINY** 35 memory and feature versions
ARM Cortex-M3 up to 32 MHz
Flash (KB): 4 to 32
RAM (KB): 2 to 4
- GECKO** 31 memory and feature versions
ARM Cortex-M3 up to 32 MHz
Flash (KB): 16 to 128
RAM (KB): 8 to 16
- LEOPARD** 60 memory and feature versions
ARM Cortex-M3 up to 48 MHz
Flash (KB): 64 to 256
RAM (KB): 32
- GIANT** 40 memory and feature versions
ARM Cortex-M3 up to 48 MHz
Flash (KB): 512 and 1024
RAM (KB): 128
- WONDER** 60 memory and feature versions (Available from: 2012)
ARM Cortex-M4F up to 48 MHz
FPU - Floating Point Unit + DSP instructions
Flash (KB): 64 to 256
RAM (KB): 32

Why is
EFM32 called
Gecko?

A gecko's
energy
consumption is
only 10% compared
to mammals of
similar size



ORDERING NO. (X = Flash Size)	ARM Cortex CPU	Memory Options Flash + RAM (KB)				GPIO (pins)	USB	LCD	USART SPI 2S	UART	LEUART	I2C	Timer (PWM)	LETIMER	RTC	PCNT	Watchdog	ADC (pins)	DAC (pins)	ACMP (pins)	OPAMP	AES	EBI	TFT	LESENSE
ZERO GECKO																									
EFM322G108FX - QFN24	M0	4 2	8 2	16 4	32 4	17	-	-	1	-	1	1	2 (6)	-	1	1	1	-	-	1 (2)	-	-	-	-	-
EFM322G110FX - QFN24	M0	4 2	8 2	16 4	32 4	17	-	-	1	-	1	1	2 (6)	-	1	1	1	1 (2)	-	1 (2)	-	-	-	-	-
EFM322G210FX - QFN32	M0	4 2	8 2	16 4	32 4	24	-	-	1	-	1	1	2 (6)	-	1	1	1	1 (4)	-	1 (2)	-	-	-	-	-
EFM322G222FX - QFP48	M0	4 2	8 2	16 4	32 4	37	-	-	1	-	1	1	2 (6)	-	1	1	1	1 (4)	-	1 (5)	-	-	-	-	-
TINY GECKO																									
EFM32TG108FX - QFN24	M3	4 2	8 2	16 4	32 4	17	-	-	1	-	1	1	2 (6)	1	1	1	1	-	-	2 (4)	-	-	-	-	Y*
EFM32TG110FX - QFN24	M3	4 2	8 2	16 4	32 4	17	-	-	2	-	1	1	2 (6)	1	1	1	1	1 (2)	2 (1)	2 (4)	3	Y	-	-	Y
EFM32TG210FX - QFN32	M3		8 2	16 4	32 4	24	-	-	2	-	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (5)	3	Y	-	-	Y
EFM32TG222FX - QFP48	M3		8 2	16 4	32 4	37	-	-	2	-	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (12)	3	Y	-	-	Y
EFM32TG225FX - BGA48	M3		8 2	16 4	32 4	37	-	-	2	-	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (12)	3	Y	-	-	Y
EFM32TG230FX - QFN64	M3		8 2	16 4	32 4	56	-	-	2	-	1	1	2 (6)	1	1	1	1	1 (8)	2 (1)	2 (16)	3	Y	-	-	Y
EFM32TG232FX - QFP64	M3		8 2	16 4	32 4	53	-	-	2	-	1	1	2 (6)	1	1	1	1	1 (8)	2 (1)	2 (16)	3	Y	-	-	Y
EFM32TG822FX - QFP48	M3		8 2	16 4	32 4	37	-	8x11	2	-	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (4)	3	Y	-	-	Y
EFM32TG825FX - BGA48	M3		8 2	16 4	32 4	37	-	8x11	2	-	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (4)	3	Y	-	-	Y
EFM32TG840FX - QFN64	M3		8 2	16 4	32 4	56	-	8x20	2	-	1	1	2 (6)	1	1	1	1	1 (8)	2 (1)	2 (8)	3	Y	-	-	Y
EFM32TG842FX - QFP64	M3		8 2	16 4	32 4	53	-	8x18	2	-	1	1	2 (6)	1	1	1	1	1 (8)	2 (1)	2 (8)	3	Y	-	-	Y
GECKO																									
EFM32G200FX - QFN32	M3	16 8	32 8	64 16		24	-	-	2	-	1	1	2 (6)	1	1	1	1	1 (4)	1 (1)	2 (5)	-	-	-	-	-
EFM32G210FX - QFN32	M3				128 16	24	-	-	2	-	1	1	2 (6)	1	1	1	1	1 (4)	1 (1)	2 (5)	-	Y	-	-	-
EFM32G222FX - QFP48	M3		32 8	64 16	128 16	37	-	-	2	-	1	1	3 (9)	1	1	2	1	1 (4)	1 (1)	2 (12)	-	Y	-	-	-
EFM32G230FX - QFN64	M3		32 8	64 16	128 16	56	-	-	3	-	2	1	3 (9)	1	1	3	1	1 (8)	2 (2)	2 (16)	-	Y	-	-	-
EFM32G232FX - QFP64	M3		32 8	64 16	128 16	53	-	-	3	-	2	1	3 (9)	1	1	3	1	1 (8)	1 (1)	2 (16)	-	Y	-	-	-
EFM32G280FX - QFP100	M3		32 8	64 16	128 16	86	-	-	3	1	2	1	3 (9)	1	1	3	1	1 (8)	2 (2)	2 (16)	-	Y	Y	-	-
EFM32G290FX - BGA112	M3		32 8	64 16	128 16	90	-	-	3	1	2	1	3 (9)	1	1	3	1	1 (8)	2 (2)	2 (16)	-	Y	Y	-	-
EFM32G840FX - QFN64	M3		32 8	64 16	128 16	56	-	4x24	3	-	2	1	3 (9)	1	1	3	1	1 (8)	2 (2)	2 (8)	-	Y	-	-	-
EFM32G842FX - QFP64	M3		32 8	64 16	128 16	53	-	4x22	3	-	2	1	3 (9)	1	1	3	1	1 (8)	1 (1)	2 (8)	-	Y	-	-	-
EFM32G880FX - QFP100	M3		32 8	64 16	128 16	86	-	4x40	3	1	2	1	3 (9)	1	1	3	1	1 (8)	2 (2)	2 (16)	-	Y	Y**	-	-
EFM32G890FX - BGA112	M3		32 8	64 16	128 16	90	-	4x40	3	1	2	1	3 (9)	1	1	3	1	1 (8)	2 (2)	2 (16)	-	Y	Y**	-	-
LEOPARD GECKO																									
EFM32LG230FX - QFN64	M3		64 32	128 32	256 32	56	-	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	-	-	Y
EFM32LG232FX - QFP64	M3		64 32	128 32	256 32	53	-	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	-	-	Y
EFM32LG280FX - QFP100	M3		64 32	128 32	256 32	86	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32LG290FX - BGA112	M3		64 32	128 32	256 32	90	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32LG295FX - BGA120	M3		64 32	128 32	256 32	93	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32LG330FX - QFN64	M3		64 32	128 32	256 32	53	Y	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	-	-	Y
EFM32LG332FX - QFP64	M3		64 32	128 32	256 32	50	Y	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32LG380FX - QFP100	M3		64 32	128 32	256 32	83	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y	Y	Y
EFM32LG390FX - BGA112	M3		64 32	128 32	256 32	87	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y	Y	Y
EFM32LG395FX - BGA120	M3		64 32	128 32	256 32	93	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32LG840FX - QFN64	M3		64 32	128 32	256 32	56	-	8x20	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	Y	-	-	Y
EFM32LG842FX - QFP64	M3		64 32	128 32	256 32	53	-	8x18	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	Y	-	-	Y
EFM32LG880FX - QFP100	M3		64 32	128 32	256 32	86	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32LG890FX - BGA112	M3		64 32	128 32	256 32	90	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32LG895FX - BGA120	M3		64 32	128 32	256 32	93	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32LG940FX - QFN64	M3		64 32	128 32	256 32	53	Y	8x18	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32LG942FX - QFP64	M3		64 32	128 32	256 32	50	Y	8x16	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32LG980FX - QFP100	M3		64 32	128 32	256 32	83	Y	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y**	Y	Y
EFM32LG990FX - BGA112	M3		64 32	128 32	256 32	87	Y	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y**	Y	Y
EFM32LG995FX - BGA120	M3		64 32	128 32	256 32	93	Y	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y

Operation range: 1.85 - 3.8 volts, -40 - 85 C
On-chip memory: Up to 1 MB Flash and 128 KB RAM
General Purpose IO: Up to 93 pins with 20 mA drive strength

* Reduced LESENSE functionality without DAC
** Reduced LCD controller functionality when using EBI (External Bus Interface)

ORDERING NO. (X = Flash Size)	ARM Cortex CPU	Memory Options Flash + RAM (KB)				GPIO (pins)	USB	LCD	USART SPI I 2S	UART	LEUART	I2C	Timer (PWM)	LETIMER	RTC	PCNT	Watchdog	ADC (pins)	DAC (pins)	ACMP (pins)	OPAMP	AES	EBI	TFT	LESENSE
GIANT GECKO																									
EFM32GG230FX - QFN64	M3			512 128	1024 128	56	-	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	-	-	Y
EFM32GG232FX - QFP64	M3			512 128	1024 128	53	-	-	3	-	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	-	-	Y
EFM32GG280FX - QFP100	M3			512 128	1024 128	86	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32GG290FX - BGA112	M3			512 128	1024 128	90	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32GG295FX - BGA120	M3			512 128	1024 128	93	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32GG330FX - QFN64	M3			512 128	1024 128	53	Y	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	-	-	Y
EFM32GG332FX - QFP64	M3			512 128	1024 128	50	Y	-	3	-	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32GG380FX - QFP100	M3			512 128	1024 128	83	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y	Y	Y
EFM32GG390FX - BGA112	M3			512 128	1024 128	87	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y	Y	Y
EFM32GG395FX - BGA120	M3			512 128	1024 128	93	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32GG840FX - QFN64	M3			512 128	1024 128	56	-	8x20	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	Y	-	-	Y
EFM32GG842FX - QFP64	M3			512 128	1024 128	53	-	8x18	3	-	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	Y	-	-	Y
EFM32GG880FX - QFP100	M3			512 128	1024 128	86	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32GG890FX - BGA112	M3			512 128	1024 128	90	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32GG895FX - BGA120	M3			512 128	1024 128	93	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32GG940FX - QFN64	M3			512 128	1024 128	53	Y	8x18	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32GG942FX - QFP64	M3			512 128	1024 128	50	Y	8x16	3	-	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32GG980FX - QFP100	M3			512 128	1024 128	83	Y	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y**	Y	Y
EFM32GG990FX - BGA112	M3			512 128	1024 128	87	Y	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y**	Y	Y
EFM32GG995FX - BGA120	M3			512 128	1024 128	93	Y	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y

WONDER GECKO																									
EFM32WG230FX - QFN64	M4F		64 32	128 32	256 32	56	-	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	-	-	Y
EFM32WG232FX - QFP64	M4F		64 32	128 32	256 32	53	-	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	-	-	Y
EFM32WG280FX - QFP100	M4F		64 32	128 32	256 32	86	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32WG290FX - BGA112	M4F		64 32	128 32	256 32	90	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32WG295FX - BGA120	M4F		64 32	128 32	256 32	93	-	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32WG330FX - QFN64	M4F		64 32	128 32	256 32	53	Y	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	-	-	Y
EFM32WG332FX - QFP64	M4F		64 32	128 32	256 32	50	Y	-	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32WG380FX - QFP100	M4F		64 32	128 32	256 32	83	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y	Y	Y
EFM32WG390FX - BGA112	M4F		64 32	128 32	256 32	87	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y	Y	Y
EFM32WG395FX - BGA120	M4F		64 32	128 32	256 32	93	Y	-	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y	Y	Y
EFM32WG840FX - QFN64	M4F		64 32	128 32	256 32	56	-	8x20	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	Y	-	-	Y
EFM32WG842FX - QFP64	M4F		64 32	128 32	256 32	53	-	8x18	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	Y	-	-	Y
EFM32WG880FX - QFP100	M4F		64 32	128 32	256 32	86	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32WG890FX - BGA112	M4F		64 32	128 32	256 32	90	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32WG895FX - BGA120	M4F		64 32	128 32	256 32	93	-	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y
EFM32WG940FX - QFN64	M4F		64 32	128 32	256 32	53	Y	8x18	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32WG942FX - QFP64	M4F		64 32	128 32	256 32	50	Y	8x16	3	-	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	Y	-	-	Y
EFM32WG980FX - QFP100	M4F		64 32	128 32	256 32	83	Y	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y**	Y	Y
EFM32WG990FX - BGA112	M4F		64 32	128 32	256 32	87	Y	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	Y	Y**	Y	Y
EFM32WG995FX - BGA120	M4F		64 32	128 32	256 32	93	Y	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	Y	Y**	Y	Y

Package Options

Front

Back

1

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4

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6

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8

9

1 QFN24
5x5 mm
0.65 pitch

2 QFN32
6x6 mm
0.65 pitch

3 QFN64
9x9 mm
0.50 pitch

4 QFP48
7x7 mm
0.50 pitch

5 QFP64
10x10 mm
0.50 pitch

6 QFP100
14x14 mm
0.50 pitch

7 BGA48
4x4 mm
0.50 pitch

8 BGA112
10x10 mm
0.80 pitch

9 BGA120
7x7 mm
0.50 pitch

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Starter Kits

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