



# 181210437 New Extended Temperature Happy Gecko MCU Devices Updated Data Sheet v2.1

**Bulletin Issue Date:** 12/10/2018

**Effective Date:** 12/10/2018

## Description of Change

Silicon Labs is pleased to announce new EFM32 Happy Gecko devices and updated family data sheet (v2.1). The EFM32 Happy Gecko family now includes N-grade variants with operational capability at ambient temperatures above the standard G-grade (85 degrees Celsius).

The updated family data sheet includes these new part numbers, along with miscellaneous updates to the following sections:

- Feature List
- Ordering Information
- Absolute Max Ratings
- General Operating Conditions
- Thermal Characteristics
- Current Consumption
- Flash
- General Purpose Input Output
- HFRCO
- ADC
- QFN24 PCB Layout
- QFN32 PCB Layout
- Revision History

No specifications were loosened as a part of these updates. See the data sheet v2.1 for exact changes.

## Reason for Change

Extended product family and updated data sheet specification methods to align to Series 0 EFM32 portfolio.

## Product Identification

Existing Part Number  
EFM32HG108F32N-B-QFN24  
EFM32HG108F64N-B-QFN24  
EFM32HG110F32N-B-QFN24  
EFM32HG110F64N-B-QFN24  
EFM32HG210F32N-B-QFN32  
EFM32HG210F64N-B-QFN32  
EFM32HG222F32N-B-QFP48  
EFM32HG222F64N-B-QFP48  
EFM32HG308F32N-B-QFN24  
EFM32HG308F64N-B-QFN24  
EFM32HG309F32N-B-QFN24  
EFM32HG309F64N-B-QFN24  
EFM32HG310F32N-B-QFN32  
EFM32HG310F64N-B-QFN32  
EFM32HG321F32N-B-QFP48  
EFM32HG321F64N-B-QFP48  
EFM32HG322F32N-B-QFP48  
EFM32HG322F64N-B-QFP48  
EFM32HG108F32N-B-QFN24R  
EFM32HG108F64N-B-QFN24R

EFM32HG110F32N-B-QFN24R  
EFM32HG110F64N-B-QFN24R  
EFM32HG210F32N-B-QFN32R  
EFM32HG210F64N-B-QFN32R  
EFM32HG222F32N-B-QFP48R  
EFM32HG222F64N-B-QFP48R  
EFM32HG308F32N-B-QFN24R  
EFM32HG308F64N-B-QFN24R  
EFM32HG309F32N-B-QFN24R  
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EFM32HG310F64N-B-QFN32R  
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EFM32HG321F64N-B-QFP48R  
EFM32HG322F32N-B-QFP48R  
EFM32HG322F64N-B-QFP48R  
EFM32HG108F32G-B-QFN24  
EFM32HG108F64G-B-QFN24  
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EFM32HG210F32G-B-QFN32  
EFM32HG210F64G-B-QFN32  
EFM32HG222F32G-B-QFP48  
EFM32HG222F64G-B-QFP48  
EFM32HG308F32G-B-QFN24  
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EFM32HG321F32G-B-QFP48  
EFM32HG321F64G-B-QFP48  
EFM32HG322F32G-B-QFP48  
EFM32HG322F64G-B-QFP48  
EFM32HG350F32G-B-CSP36  
EFM32HG350F64G-B-CSP36  
EFM32HG108F32G-B-QFN24R  
EFM32HG108F64G-B-QFN24R  
EFM32HG110F32G-B-QFN24R  
EFM32HG110F64G-B-QFN24R  
EFM32HG210F32G-B-QFN32R  
EFM32HG210F64G-B-QFN32R  
EFM32HG222F32G-B-QFP48R  
EFM32HG222F64G-B-QFP48R  
EFM32HG308F32G-B-QFN24R  
EFM32HG308F64G-B-QFN24R  
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EFM32HG309F64G-B-QFN24R  
EFM32HG310F32G-B-QFN32R  
EFM32HG310F64G-B-QFN32R  
EFM32HG321F32G-B-QFP48R  
EFM32HG321F64G-B-QFP48R  
EFM32HG322F32G-B-QFP48R  
EFM32HG322F64G-B-QFP48R  
EFM32HG350F32G-B-CSP36R  
EFM32HG350F64G-B-CSP36R

This change is considered a minor change which does not affect form, fit, function, quality, or reliability. The information is being provided as a customer courtesy.

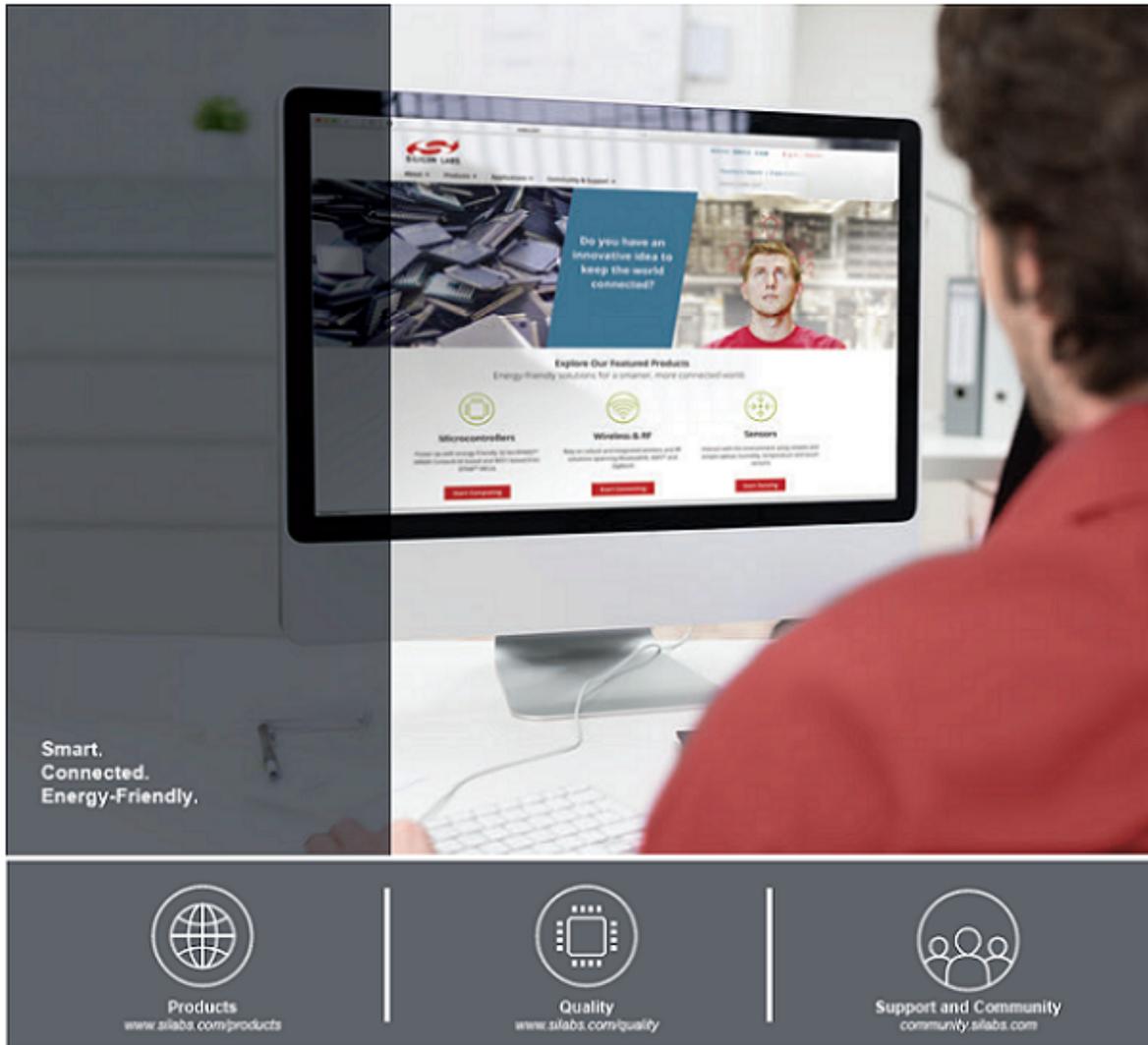
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### Customer Actions Needed:

See updated data sheet v2.10

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