

## Flexis AC Demonstration Board ☆

### Overview | Documentation | Downloads | Buy / Specifications

#### Application Notes | Buy

The DEMOAC provides a platform supporting a line of Freescale MCUs which are part of the Flexis Continuum.

Target MCUs mount on plug-in modules to support quickly changing the target MCU.

The DEMOACEX is a peripheral expansion board designed to interface with the DEMOAC board. The DEMOACEX applies the Freescale MC33794 E-field imaging sensor connected to touchpad in various arrangements.

#### Features

- DEMOAC features:
  - Integrated, USB BDM
  - ON/OFF power switch
  - Power input select option header
    - On-board 5V regulator
    - Power from USB BDM
    - Optional power sourced to connector J1
  - 4MHz XTAL oscillator
  - 3-axis accelerometer
  - LEDs – four user, one power, one reset
  - Push-button switches – four user, one reset
  - 5K ohm POT
  - Jumpers to disconnect user features
  - 80-pin MCU PORT provides access to MCU signals
  - 4 20-pos pin-headers support plug-in MCU modules
  - IIC termination select header
- DEMOACEX features:
  - 80-pin MCU PORT connects to DEMOAC board
  - 9-channel, E-Field sensor
  - E-field touchpad including rotary dial and push-buttons
  - Two low-pass RC filters
  - 5V – 12V boost switcher power supply for E-field sensor
  - LEDs – 10 user, one E-field lamp
  - CAN 2.0 A/B PHY w/ Three-pos header
  - Jumpers to disconnect all IO signals
  - SOIC and TSSOP pads for external IC's
  - Large thru-hole prototyping area w/ adjacent 5V and GND

#### Related Software and Tools

[TSS](#): Xtrinsic Touch-Sensing Software  
[USBMULTILINKBDM](#): USB S08/HCS12 BDM Multilink - In-Circuit Debugger/Programmer  
[UMultilink](#): Universal Multilink Development Interface



#### Supported Devices

- [MCF51AC](#): Flexis 32-bit ColdFire® V1 Microcontrollers
- [S08AC](#): 8-bit Flexis AC128/96/60/48/32 MCUs

#### Featured Documentation

- [DEMOAC\\_UG](#): DEMOAC User Guide
- [DEMOACKIT\\_QSG](#): DEMOAC KIT Quick Start Guide
- [DEMOACKIT\\_LAB](#): DEMOAC KIT Lab Tutorial

[More](#) ▼

#### Current Updates and Releases

- [DEMOAC\\_SCH](#): DEMOAC Schematic
- [DEMOACEX\\_SCH](#): DEMOACEX Schematic
- [CWX-H08-SE](#): Special Edition: CodeWarrior for Microcontrollers (Classic, Windows hosted)

[More](#) ▼

#### Kit Contains

- DEMOAC Board
  - Daughter card for the S08AC128
  - Daughter card for the 51AC256
  - Global Power Adaptors
  - CodeWarrior Development Studio DVD
  - Quick Start Guide
  - User Manual
- DEMOACEX Board
  - Quick Start Guide
  - User Manual
    - NOTE: The Expansion Board is sold separately

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#### Products

[MCF51AC](#): Flexis 32-bit ColdFir...  
[S08AC](#): 8-bit Flexis AC128/96/6...  
[MCF51JM](#): Flexis 32-bit V1 Cold...

#### Documentation

[DEMOAC User Guide](#)  
[DEMOAC KIT Quick Start Guide](#)  
[DEMOAC KIT Lab Tutorial](#)

#### Software and Tools

[DEMO9S08AC60E](#): Demo Board for ...  
[DEMOAC Schematic](#)  
[DEMOACEX Schematic](#)

#### Applications

[Brushless DC \(BLDC\) Motor](#)  
[Stepper Motor](#)

