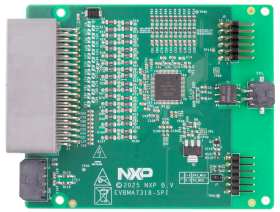
Getting Started with the EVBMA7318-SPI Evaluation Board

Last Modified: Apr 28, 2026 Supports EVBMA7318-SPI (/design/design-center/development-boards-and-designs/EVBMA7318-SPI)

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1. Out of the Box

The NXP analog product development boards provide an easy-to-use platform for evaluating NXP products. The boards support a range of analog, mixed-signal and power solutions. They incorporate monolithic integrated circuits (ICs) and system-in-package (SiP) devices that use proven high-volume technology. NXP products offer longer battery life, a smaller form factor, reduced component counts, lower cost and improved performance in powering state-of-the-art systems.

This page guides you through the process of setting up and using the EVBMA7318-SPI evaluation board.

1.1 Kit Contents and Packing List

The EVBMA7318-SPI kit contents include:

- EVBMA7318-SPI board
- Battery simulation cable x 1: power supply for battery cell controller (BCC) simulate each cell by series resistors
- Current measurement cable x 1 - connect to SHUNT and its calibration NTC
- Transform physical layer (TPL) daisy chain cable x 1: cable to communicate with other boards by TPL
- Serial peripheral interface (SPI) communication cable x 2: cable to communicate with UMFT4222EV/controller board by SPI
- Debug cable with UMFT4222EV board x 1

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Mark as complete: 1.1 Kit Contents and Packing List

1.2 Additional Hardware

No additional hardware is required for device evaluation, however a power supply 24 voltage direct current (VDC) with current capability of 500 mA or a four-to-18-cell battery pack is recommended. In addition to the kit contents, the following (optional) hardware is beneficial when working with this kit:

- External SHUNT and current resource that can be connected to SHUNT
- Battery emulator board BATT-7318EMU (access link: BATT-7318EMU (/design/design-center/development-boards-and-designs/BATT-7318EMU))
- Power supply 5 VDC with current capability 500 mA

Mark as complete: 1.2 Additional Hardware

1.3 Minimum System Requirements

This evaluation board requires a Windows PC. Verifying that your system meets the minimum specifications (Windows® 11/10/8/7, Windows XP, or Vista in 32-bit or 64-bit version) will ensure reliable performance while using this evaluation board.

Mark as complete: 1.3 Minimum System Requirements

1.4 Software

Software must be installed before working with this evaluation board. Install the following programs:

- Graphical user interface (GUI): ScriptGUI V3.5+
- ScriptGUI plugin for BMA7318

All listed software is available on the evaluation board's information page at EVBMA7318-SPI (/design/design-center/development-boards-and-designs/EVBMA7318-SPI) or from NXP GUI page SWBMS-ScriptGUI-D (/webapp/swlicensing/sso/downloadSoftware.sp?catid=SW-BMS-ScriptGUI-D).

Mark as complete: 1.4 Software

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