# Getting Started with the EVBMA7318-TPL Evaluation Board

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

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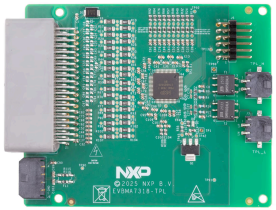
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# 1. Out of the Box

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-TPL evaluation board.

## 1.1 Kit Contents

The EVBMA7318-TPL kit contents include:

- EVBMA7318-TPL board
- Battery simulation cable x 1: power supply for battery cell controller (BCC) to simulate each cell by series resistors
- Current measurement cable x 1: connect to SHUNT and its calibration negative temperature coefficient (NTC)
- Transform physical layer (TPL) daisy chain cable x 2: cable to communicate with other boards by TPL

☐ **Mark as complete:** 1.1 Kit Contents

## 1.2 Additional Hardware

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No additional hardware is required for device evaluation. However, in addition to the kit contents, the following hardware is beneficial when working with this kit:

- Debug cable TTL232-R-5V with KITP6X02AP2T1 board x 1 KIT6X02AP2T1 (/products/battery-management/battery-communication-ics/computer-to-electrical-transport-pro ol-link-etpl-dongle:KIT6X02AP2T1)
- Power supply 24 voltage direct current (VDC) with current capability of 500 mA or a four-to-18-cell battery pack

Optional hardware:

- External SHUNT and current resource that can be connected to SHUNT BATT-7318EMU

- Power supply 24 VDC with current capability of 500 mA or a four-to-18-cell battery pack
- External SHUNT and current resource that can be connected to SHUNT
- Battery emulator board 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

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