AN706: EZSP-UART Host Interfacing Guide

This version of AN706 has been deprecated with the release of Simplicity SDK Suite 2025.12.0. For the latest version, see docs.silabs.com.

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This application note describes how to connect a Host processor to a Network Co-Processor (NCP) using the UART-based EmberZNet Serial Protocol (EZSP) or EZSP over Co-Processor Communication (CPC). It assumes that you already have a basic understanding of the EZSP-UART Gateway protocol, as well as the signals needed by the UART interface. If not, refer to UG101: UART Gateway Protocol Reference Guide before continuing.

Zigbee EmberZNet SDK 7.0 introduced a new component-based architecture, along with a Project Configurator and other tools to replace AppBuilder and plugin configuration. In general, the new software components are comparable to the plugins. When applicable, instructions for both version 7.0 and higher and 6.10.x and lower are provided. For more information, see AN1301: Transitioning from Zigbee EmberZNet SDK 6.x to SDK 7.x.

KEY POINTS

- EZSP-UART protocol overview
- Physical interfaces
- Command line options for Host applications
- Hardware design considerations
- Powering up, power cycling, and rebooting
- Bootloading

