



DVK-SFEU-API-1-GEVK: Sigfox™ API Development Kit for RCZ1

The miniature (15mm x 33mm) Sigfox development kit (DVK), DVK-SFEU-1-GEVK, allows designers to quickly develop Sigfox connected applications in the RCZ1 region using the [AX-SFEU-API](#) SoC solution.

The DVK comes with a free two-year Sigfox subscription and is pre-programmed with the Sigfox stack and an example application that can be used as-is or extended. Approximately 40kB of FLASH is available for application code.

Included in the kit is the [AXDBG-2-GEVK](#) debugger used for debugging software and programming the FLASH.

To program the DVK, the designer needs to download the [development tools](#) and the API software library (link below in the Technical Documents table). The commercially available [IAR 8051](#) compiler is also required. Documentation for the example application is included in the API software library.

The DVK is also a reference design. The designer can copy and paste the reference design to their application board and reuse the DVK Sigfox ready™ certification (P1). The reference design has also been checked for regulatory compliance, minimizing risk for the customer's product level compliance.

The DVK has an SMA connector to allow for both conducted measurements as well as radiated measurements using the included whip antenna.

Designers that already have an application microcontroller but need a Sigfox modem can use the [AX-SFEU](#) solution and corresponding [DVK-SFEU-1-GEVK](#) development kit.



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
DVK-SFEU-API-1-GEVK	Active	Pb-free	Sigfox™ API Development Kit for RCZ1	AX-SFEU-API-1-01-TB05 , AX-SFEU-API-1-01-TX30	» Contact Local Sales Office » Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Software	AX8052-IDE Software Package (Windows Installer)	AX8052-IDE Software Package (Windows installer) - 55125 KB	1.17
Eval Board: BOM	DVK-SFEU-1-GEVK Bill of Materials (ROHS Complaint)	DVK-SFEU-1-GEVK_BOM_ROHS - 63 KB	0
Eval Board: Gerber	DVK-SFEU-1-GEVK Gerber Layout Files (Zip Format)	DVK-SFEU-1-GEVK_GERBER - 0 KB	1
Eval Board: Schematic	DVK-SFEU-1-GEVK Schematic	DVK-SFEU-1-GEVK_SCHEMATIC - 53 KB	1
Eval Board: BOM	DVK-SFEU-1-GEVK StackUp	DVK-SFEU-1-GEVK_STACKUP - 0 KB	1
Software	Sigfox RCZ1 Library for AX-SFEU-API SoC and DVK-SFEU	AX-SFEU-API Library - 1725 KB	1.1.1d
Eval Board: Manual	AX-SFxx-y-GEVK Evaluation Board User's Manual	EVBUM2501/D - 195 KB	0
Application Notes	AX Development Systems - Troubleshooting Guide	AND9621/D - 730 KB	1

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