

# EM8500 Development Tools

There are two development tool-kits available for the EM8500 series

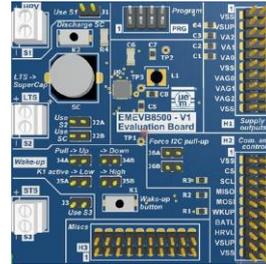
- An entry-level evaluation board EMEVB8500
- A high-end development kit EMDVK8500

## EMEVB8500

The EMEVB8500 is the entry-level development tool used for the evaluation and prototyping of EM8500 integrated energy harvesting solutions. The EMEVB8500 consists of a flexible board with various configurations. It is possible to select the internal or external storage element and to easily connect a harvester, external storage elements and the application.

### Main Features

- | Long Term and Short Term storage selection (internal or external)
- | External harvester connector
- | Expansion header for prototyping and external connection
- | Configurable wake-up line with push-button
- | EM8500 I<sup>2</sup>C pull-up selection



## EMDVK8500

The EMDVK8500 is a powerful tool for the configuration, evaluation and prototyping of integrated energy harvesting solutions based on EM8500 family of devices. The development kit includes a full set of measurement tools and offers a complete set of features to characterize your hardware application.

### Hardware Main Features

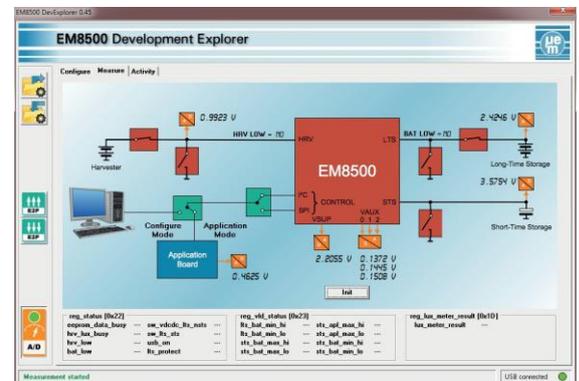
- | Modular architecture for prototyping and validating your power management enabled application
- | Flexible load and harvester source selection
- | Ready to measure nodes for lab equipment (oscilloscope, power analyzer, ...)
- | Up to eight high speed acquisition channels
- | Expansion header for application prototyping
- | Example application board

| On-board EM8500 configuration tool

| Self powered by USB

### Software Main Features

- | Plug-and-Play environment
- | EM8500 Configuration management
- | Support for SPI and I<sup>2</sup>C access
- | Advanced real-time voltage profile recording
- | Monitoring and advanced measurement
- | Corner cases emulation (e.g. application start-up, ...)



## Main Feature Comparison

Main Feature	EMEB8500	EMDVK8500
Flexible load and harvester source selection	✓	✓
Expansion header for prototyping and external connection	✓	✓
On board storage elements	✓	✓
On board E2prom configuration unit		✓
On board measurement unit		✓
Graphical user interface		✓
Real-time voltage waveform display		✓
Application board		✓

## Ordering

Product	Part Number	Ordering Number
Evaluation board EM8500	EMEB8500	SV-1297
Development kit EM8500	EMDVK8500	SV-1298
Evaluation board EM8502	EMEB8502	SV-1304
Development kit EM8502	EMDVK8502	SV-1305