

# Крок 1 – Реєстрація та отримання коду активації

Перейти за посиланням

<https://www.typhoon-hil.com/products/virtual-hil-device/>

або скористуватись QR-кодом

Цей крок можна зробити навіть з мобільних пристроїв





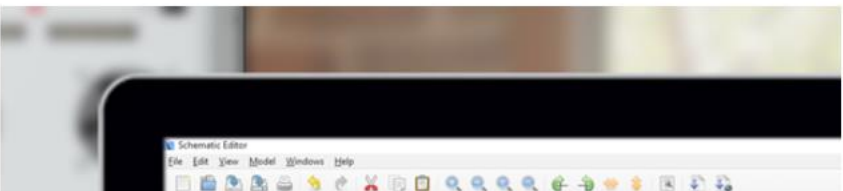
## What is Virtual HIL?

Virtual HIL is not (yet another) offline simulator.

In computing, a virtual machine (VM) is an emulation of a computer system. Similarly, Virtual HIL Device brings the functionality of a physical HIL Device with all “restrictions” of the real-time environment to your PC.

[Get your Virtual HIL license](#)

[Download Control Center.](#)



## Enable Test-driven development

Virtual HIL is a true enabler of test-driven development processes where, by turning requirements into specific test cases, it becomes

## Turn your Computer into a HIL Laboratory.



With Virtual HIL you can deploy and run all your real-time ready models without an actual HIL Device. You are able to validate your designs in very short development cycles, drastically shortening end-of-the-line validation and commissioning efforts, and at the same time boost your confidence in product performance.

### Virtual HIL allows you to:

- Use the capabilities of the HIL software toolchain and its core features without a HIL real-time device.
- Develop, simulate, and verify models that are only one click away from real-time execution.
- Speed up the development of models and test scripts, regardless of how many HIL devices you have.
- Run all your existing models, developed for your actual HIL device, in non-real-time without any modification.

### Access Free Virtual HIL License

FIRST NAME\*  LAST NAME\*

Please complete this required field. Please complete this required field.

COUNTRY\*

WORK EMAIL\*

Please complete this required field.

LINE OF WORK\*

APPLICATION(S)\*

- PV/Solar/Wind
- Drives
- EV/Automotive
- ESS/Battery
- Microgrids
- Other

Після цього на вказану пошту прийде код активації. Також в листі буде вказаний лінк для подальшої реєстрації



## You have successfully subscribed to receive a free Virtual HIL Device installation!

Your **Virtual HIL Device** activation key is on its way to your inbox.

To learn how to use this tool in the most efficient way for both an academic and industrial setting, we encourage you to register for a free account on our [HIL Academy](#) platform. Typhoon HIL Academy offers courses, tutorials, and lectures focused on real-time simulation and testing of power electronics and power systems. This online content is designed to help engineers, researchers, and students gain hands-on experience with the latest HIL simulation and testing technologies and techniques.

### Additional Resources:

- [Watch](#) how others are using Controller Hardware-in-the-Loop (C-HIL) in various industries.
- Explore our latest [webinars](#).
- Want more advanced training? [Connect](#) with a HIL specialist to learn more.

VIRTUAL HIL REGISTRATION SITE

VIRTUAL HIL INSTALLATION INSTRUCTIONS

LEARN MORE ABOUT VIRTUAL HIL



Або скористуватися  
кнопкою

email:

**Ввести вказаний емейл**

password:

**Вигадати та ввести пароль**

password (again):

**Підтвердити пароль**

first name:

**Ввести Ім'я та Прізвище**

last name:

activation key:

**Ввести код активації, вказаний в емейл**

Sign up

**Натиснути, коли всі поля введені**

# Крок 2 – Встановлення ПЗ

## Вимоги до комп'ютера для встановлення програмного забезпечення

### Windows

- Windows (7, 8, 8.1, 10 and 11)
- Minimum 8GB of RAM
- Minimum screen resolution 1366 x 768
- All dependencies are included in the Typhoon HIL Control Center installation

### Linux

- Debian 10 and Ubuntu 20.04 LTS. CentOS is no longer officially supported
- Minimum 8GB of RAM
- Minimum screen resolution 1366 x 768
- All dependencies are included in the Typhoon HIL Control Center installation

Software

Firmware

Documentation

## Typhoon HIL Control Center



Version: **2023.3 SP1**  
Release date: **29.08.2023**

Windows (x64, 2.3 GB)  
Linux (x64, 2.8 GB)

## Notice

- **Library compatibility:**
  - 2023.3 requires Typhoon HIL API version 1.24.0 or greater.
  - 2023.3 requires TyphoonTest version 1.27.0 or greater.
- **Installation changes:** From version 2019.2 installation procedure will not uninstall previous version/s of Typhoon software.
- **Discontinued Support for 32-bit Version:** The 2019.2 release is the last release to support 32-bit version. It is still possible to access previous 32-bit versions from [this page](#).
- **Discontinued Support for HIL600 and HIL602 devices:** The 2020.3 release is the last release to support these devices.
- **Discontinued Support for HIL603:** The 2021.4 release is the last release to support this device.
- **Linux installation:** To install Linux version, please follow instructions on this [link](#).
- **THCC silent installation:** Example how THCC can be "silently" installed by using [batch script](#).

## Release Notes

- **NEW:** Added OCPP protocol support in HIL SCADA.
- **NEW:** Added PTP time synchronization for IEC 61850 Sampled Values protocol.
- **NEW:** CAN FD ports on the HIL606 now also support regular CAN Bus protocol.
- **NEW:** Added support for sawtooth PWM modulator carrier signal.
- A number of small bug fixes and improvements.
- For more information [click here](#).

## Known Issues

- For more information [click here](#).

Перейти на вкладку Download

Вибрати відповідну операційну систему

- 1.Скачати програму
- 2.Розпакувати
- 3.Запустити EXE-файл (Наприклад для Windows Typhoon HiL Control Center V2023.3 sp1 (x64).exe)
- 4.Слідувати інструкціям програми-інсталятора



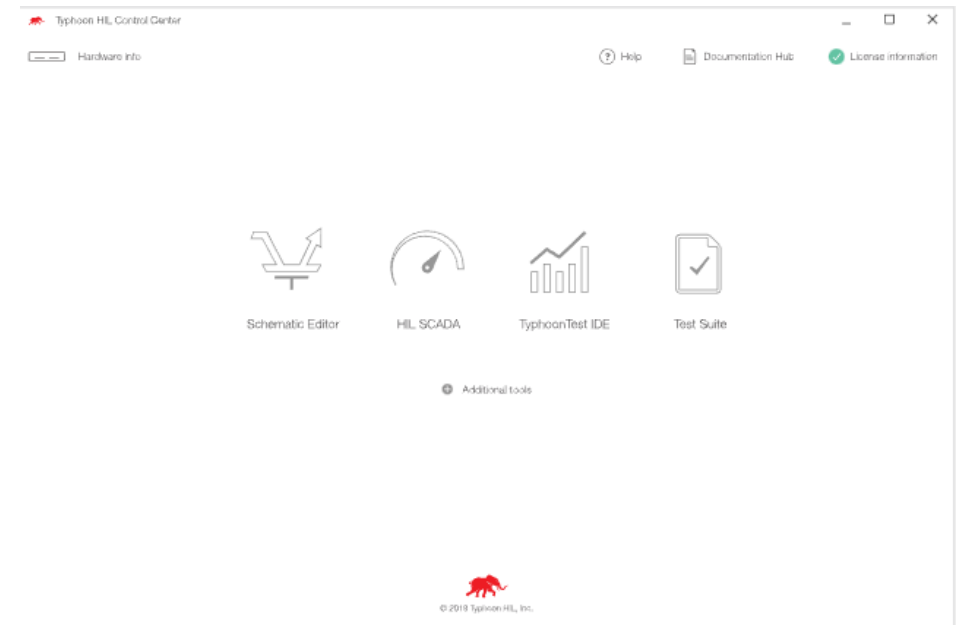
# Крок 3 – Використання

1. Після встановлення, запусити Typhoon HIL Control Center.  
Відкриється вікно

**Schematic Editor** – Програма для  
збірки моделей

**HIL SCADA** - Програма для  
керівання та моніторингу при  
роботі моделі

**Examples** – Набір моделей за  
тематиками



# Крок 4 – Навчальні матеріали HIL Academy

1. Зайти за посиланням <https://hil.academy/> або скористатися QR-кодом
2. Натиснути Sign In
3. Вийти зі свого акаунтом

Welcome back!  
This login form is for users who have registered before the 25th of June, 2022.

Username or Email Address

Password

Remember Me [Forgot password?](#)

Login

Or login using your account on:

Typhoon HIL

**Attention:**

If you have registered your account after the 25th of June, 2022, please login using Typhoon HIL:

Is this your first time here?  
For full access to this site, you first need to create an account.

Create new account

Вийти зі свого акаунтом



# Відкриється початкова платформа, на якій знаходяться курси за тематиками.

В кожному курсі є відео/текстові та презентаційні матеріали з детальним обґрунтуванням теорії та прикладами використання на ПЗ/обладнанні Typhoon HIL.

Якщо зареєструватися і пройти курс, буде видано сертифікат!

**HIL Academy** Home Courses Specializations About Blog Contact Oleksandr

Course Title	Modules	Rating	Provider	Completion
AC – AC Converters	2	★★★★★ (1)	Faculty of Technical Sciences	-
AC – DC Converters	3	★★★★★ (1)	Faculty of Technical Sciences	-
Communication Protocols	8	★★★★★ (10)	Typhoon HIL	-
Control of Microgrids	2	★★★★★ (13)	Federal University of Santa Maria	0% Complete
DC – AC Converters	2	-	Faculty of Technical Sciences	-
DC – DC Converters	11	★★★★★ (1)	Faculty of Technical Sciences	-
Digital Control of Grid-Tied Converters	5	★★★★★ (5)	Federal University of Santa Maria	-
HIL for Microgrids	7	★★★★★ (12)	Typhoon HIL	-
HIL for Power Electronics	6	★★★★★ (13)	-	-
HIL Fundamentals	6	★★★★★ (59)	-	-
HIL Simulation for Power System Protection	6	★★★★★ (4)	-	-
HILの基礎	3	-	-	-