

Dracula Technologies Selected by STMicroelectronics for Full Autonomous MCU; Joining ST Partner Program

Dracula Technologies announces that its LAYER® OPV technology is fully compatible with STMicroelectronics' latest ultra-low power microcontrollers.

VALENCE, FRANCE, April 8, 2024

[/EINPresswire.com/](https://www.einpresswire.com/) -- In a

groundbreaking move towards enhancing energy efficiency and autonomy in microcontroller units (MCUs), Dracula Technologies announces that its [LAYER®](#) Organic Photovoltaic (OPV) technology is fully compatible with STMicroelectronics' latest ultra-low power microcontrollers.

LAYER® empowers manufacturers and end users to create a battery-free future by using ambient indoor light to

generate sustainable micro-power devices. The new advanced ultra-low-power [STM32U0](#) microcontrollers for industrial, medical, smart-metering, and consumer applications are a new generation of energy-conscious and cost-effective MCUs that reduces energy consumption by up to 50% compared to previous MCU generations. LAYER® empowers manufacturers and end users to create a battery-free future by using ambient indoor light to generate sustainable micro-power devices.

Formalizing this cooperation, Dracula Technologies is now a member of the [ST Partner Program](#) that aims to streamline the development of end-to-end solutions, reducing product development efforts and accelerating time to market. The initiative aligns with ST's commitment to pushing the boundaries of innovation in the ultra-low power segment.

According to Thierry Bousquet, STM32 Ultra-Low Power Product Line Marketing Manager at STMicroelectronics: "STMicroelectronics' integration of Dracula Technologies' OPV in an STM32U0 demo shown at Embedded World 2024 marks a new era of energy-efficient



microcontroller units. Our aim in creating the low-power MCU STM32U0 was to enable applications that demand ultra-low power consumption, particularly crucial for numerous self-powered (autonomous) sensors, relying on energy harvesting instead of traditional batteries”.

Thierry Bousquet further emphasized, “One of the STM32U0 demos that garnered a lot of attention is an

illuminometer built using Dracula Technologies’ OPV module. It runs on a small photovoltaic panel receiving only 5 lux instead of the traditional coin battery. We chose Dracula Technologies for its exceptional energy-harvesting capabilities, particularly in indoor low-light environments, enabling devices to operate under challenging conditions. The STM32U0 will help design teams save energy and provide the optimal compromise between energy consumption, integrated features, and cost-effectiveness.”

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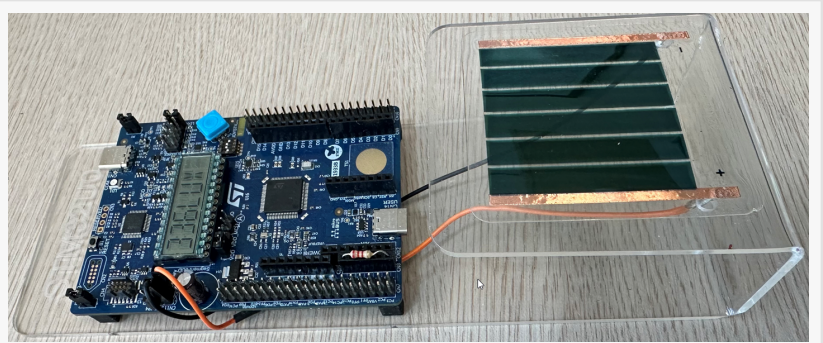
Being chosen to power this product marks a significant milestone, and we are delighted to join the ST Partner Program to further drive innovation in energy harvesting.”

*Jerome Vernet, VP of Sales at
Dracula Technologies*

Jerome Vernet, VP of Sales at Dracula Technologies, expressed enthusiasm about the collaboration with ST, stating, “This collaboration represents the culmination of our close relationship and shared vision, resulting in powerful synergies. Being chosen to power this product marks a significant milestone, and we are delighted to join the ST Partner Program to further drive innovation in energy harvesting.”

STMicroelectronics’ utilization of OPV underscores the company's dedication to harnessing cutting-edge technologies to meet the evolving needs of various industries. Leveraging the capabilities of Dracula Technologies' OPV, the STM32U0 achieves unprecedented static power consumption levels, empowering engineers to optimize their designs for a multitude of battery-powered applications across industrial, medical, Smart metering, and consumer wellness markets.

About Dracula Technologies: Dracula Technologies, headquartered in Valence, France, pioneers sustainable energy solutions with our LAYER® technology, revolutionizing power sources for low-power electronics. Our organic photovoltaic (OPV) modules, manufactured using patented digital printing, harvest ambient light, eliminating reliance on traditional batteries. LAYER®Vault complements our existing OPV harvesting product line, transforming it into a 2-in-1 product, combining low-light energy harvesting and storage on a single, flexible film ensuring



STMicroelectronics MCU Powered by Dracula Technologies

uninterrupted device functionality, empowering Smart Buildings, Smart Homes, Smart Asset Tracking, and other related applications. With a commitment to clean, renewable energy, Dracula Technologies leads the charge towards a greener future by providing long-lasting, and cost-effective energy solutions. Supporting our mission is our new "Green Micropower Factory"—a state-of-the-art, fully automated facility, the largest of its kind in Europe with a capacity of up to 150 million cm² of printed OPV devices per year.

Note: Dracula Technologies will be exhibiting at Embedded World taking place from April 9-11, 2024, in Nuremberg at Hall 3A, booth 301. Attendees will have the opportunity to see live demonstrations at both the Dracula Technologies booth and partner booths, including ST (Hall 4A, booth 148), gaining insights into the technology that drives indoor devices.

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